Fall 2014

Dear Potential Employer:

Thank you for your interest in our Biosystems Engineering graduates. This booklet includes the resumes of our soon to be 2014/15 graduates as well as the resumes of other students (e.g., juniors, sophomores, freshmen, graduate students, and recent graduates) looking for summer internships, co-op or part-time work experiences or full-time.

In case you are not familiar with our program, the Bachelor of Science in Biosystems Engineering at Michigan State University is an ABET-accredited engineering program, emphasizing the integration of biology and engineering principles in addressing critical societal needs. All of our students complete a common core of engineering courses, at least five courses in biological sciences, and a group of courses allowing them to specialize in a particular application area. We are including a copy of the curriculum at the front of this booklet, for your information.

As you will see from the enclosed resumes, our students’ interests span a wide domain, ranging from food processing to biomedical systems to sustainable ecosystems to bioenergy development. We encourage you to contact any of them directly if you have suitable opportunities. Also, current student resumes are available on our website at: www.egr.msu.edu/iae (click on Resume Book). If you have more general questions or comments about our Resume Book or placement of our students, please contact our Industry Liaison, Luke Reese, Ph.D. (517-353-3258; reesel@msu.edu). We are proud of our students, in terms of both their accomplishments and aspirations.

If you have questions about the Biosystems Engineering degree program, in terms of program objectives, coursework, etc., feel free to contact me. We are always happy to talk with potential employers about our degree program and our students.

Sincerely,

Bradley P. Marks, PhD, P.E.
Professor
Undergraduate Program Coordinator
Biosystems Engineering

Accredited by the Engineering Accreditation Commission of ABET,
111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone (410) 347-7700.

1. University Requirements: (23)
   Writing, Rhetoric and American Cultures (WRA) 4
   Integrative Studies in Humanities (IAH) 8
   Integrative Studies in Social Sciences (ISS) 8
   Bioscience: BS 161 Cell and Molecular Biology 3

2. College Requirements: (30)
   CEM 141 General Chemistry 4
   EGR 100 Introduction to Engineering Design 2
   EGR 102 Introduction to Engineering Modeling 2
   MTH 132 Calculus I 3
   MTH 133 Calculus II 4
   MTH 234 Multivariable Calculus 4
   MTH 235 Differential Equations 3
   PHY 183 Physics for Scientists & Engineers I 4
   PHY 184 Physics for Scientists & Engineers II 4

3. Major Requirements: (67-69)
   a. Complete all of the following courses: (47)
      BE 101 Introduction to Biosystems Engineering 1
      BE 230 Engineering Analysis of Biological Systems 3
      BE 332 Engineering Properties of Biological Materials 3
      BE 334 Biosystems Engineering Laboratory Practice 3
      BE 350 Heat and Mass Transfer in Biosystems 3
      BE 351 Thermodynamics for Biological Engineering 3
      BE 360 Microbial Systems Engineering 3
      BE 385 Egr Design & Optimization for Biological Sys 3
      BE 485 Biosystems Design Techniques 3
      BE 487 Biosystems Design Project (W) 3
      BS 162 Organismal and Population Biology 3
      CE 221 Statics 3
      CE 321 Introduction to Fluid Mechanics 4
      CEM 143 Survey of Organic Chemistry 4
      CEM 161 Chemistry Laboratory I 1
   b. Select one of the following courses: (2)
      BS 171 Cell and Molecular Biology Laboratory 2
      BS 172 Organismal and Population Biology Laboratory 2
   c. Select one of the following courses: (3-4)
      MMG 301 Introductory Microbiology 3
      PLB 301 Introductory Plant Physiology 3
      PSL 250 Introductory Physiology 4
      ZOL 341 Fundamental Genetics 4
      ZOL 355 Ecology 3
   d. Select one of the following courses: (3-4)
      BLD 450 Eukaryotic Pathogens 3
      CSS 442 Agricultural Ecology 3
      FOR 404 Forest Ecology 3
      FSC 440 Food Microbiology 3
      MMG 425 Microbial Ecology 3
      MMG 445 Microbial Biotechnology (W) 3
      PLB 402 Biology of Fungi 3
      PLB 424 Algal Biology 4
      PSL 425 Physiological Biophysics 3
   e. Select four of the following courses: (12)
      BE 445 Biosensors for Medical Diagnostics 3
      BE 456 Electric Power and Control 3
      BE 469 Sustainable Bioenergy Systems 3
      BE 477 Food Engineering: Fluids 3
      BE 478 Food Engineering: Solids 3
      BE 481 Water Resources Sys Anlys & Modeling 3
      BE 482 Diffuse-Source Pollution Engineering 3
      CHE 468 Biomass Conversion Engineering 3
      ECE 445 Biomedical Instrumentation 3

Optional Concentrations

The department offers concentrations for students who wish to focus on a specific application area in the discipline. The concentrations are available to, but not required of, any student enrolled in the Bachelor of Science degree program in Biosystems Engineering. Courses completed to satisfy requirement 3. above may also be used to satisfy the requirements of a concentration. The concentration will be noted on the student’s transcript.

Bioenergy Engineering Concentration

To earn a Bachelor of Science degree in Biosystems Engineering with a bioenergy engineering concentration, students must complete requirements 1., 2., and 3. above and the following:

1. All of the following courses: (9)
   BE 469 Sustainable Bioenergy Systems 3
   CHE 468 Biomass Conversion Engineering 3
   CSS 467 Bioenergy Feedstock Production 3

2. One of the following courses: (3-4)
   MMG 445 Microbial Biotechnology (W) 3
   PLB 402 Biology of Fungi 3
   PLB 424 Algal Biology 4

3. One of the following courses: (3-4): (3-4)
   CHE 481 Biochemical Engineering 3
   CHE 882 Advanced Biochemical Engineering 3
   CHE 883 Multidisciplinary Bioprocessing Laboratory 3
   GLG 471 Applied Geophysics 4
   MC 450 International Environmental Law & Policy 3
   ME 417 Design of Alternative Energy Systems 3
   ME 422 Introduction to Combustion 3
   MMG 445 Microbial Biotechnology (W) 3
   PLB 402 Biology of Fungi 3
   PLB 424 Algal Biology 4

Courses used to fulfill requirement 2. in this concentration may not be used to fulfill requirement 3.
Biomedical Engineering Concentration
To earn a Bachelor of Science degree in Biosystems Engineering with a biomedical engineering concentration, students must complete requirements 1., 2., and 3. above and the following:

1. The following course: (3)
BE 445 Biosensors for Medical Diagnostics 3

2. One of the following courses: (3)
ECE 445 Biomedical Instrumentation 3
ME 494 Biofluid Mechanics and Heat Transfer 3

3. One of the following courses: (3)
BLD 450 Eukaryotic Pathogens 3
PSL 425 Physiological Biophysics 3

4. Two of the following: (5-6)
BLD 204 Mechanisms of Disease 3
BLD 430 Molecular Laboratory Diagnostics 2
BLD 434 Clinical Immunology 3
BLD 450 Eukaryotic Pathogens 3
ECE 445 Biomedical Instrumentation 3
ME 494 Biofluid Mechanics and Heat Transfer 3
MSE 425 Biomaterials and Biocompatibility 3
PLB 400 Introduction to Bioinformatics 3
PSL 425 Physiological Biophysics 3

Courses used to fulfill requirements 2. and 3. in this concentration may not be used to fulfill requirement 4.

Food Engineering Concentration
To earn a Bachelor of Science degree in Biosystems Engineering with a food engineering concentration, students must complete requirements 1., 2., and 3. above and the following:

All of the following courses: (9)
BE 477 Food Engineering: Fluids 3
BE 478 Food Engineering: Solids 3
FSC 440 Food Microbiology 3

Two of the following courses, one of which must be at the 400-level: (6-7)
BMB 200 Introduction to Biochemistry 4
FSC 211 Principles of Food Science 3
FSC 401 Food Chemistry 3
FSC 430 Food Processing: Fruits & Vegetables 3
FSC 431 Food Processing: Cereals 3
FSC 432 Food Processing: Dairy Foods 3
FSC 433 Food Processing: Muscle Foods 3

Other Electives (Variable)

Total Credits Required for Degree 128

Ecosystems Engineering Concentration
To earn a Bachelor of Science degree in Biosystems Engineering with an ecosystems engineering concentration, students must complete requirements 1., 2., and 3. above and the following:

1. All of the following courses: (9)
BE 481 Water Resources Systems Analysis and Modeling 3
BE 482 Diffuse-Source Pollution Engineering 3
MMG 425 Microbial Ecology 3

2. Two of the following courses: (5-6)
CE 422 Applied Hydraulics 3
CSS 210 Fundamentals of Soil Science 3
CSS 330 Soil Chemistry 2
CSS 360 Soil Biology 3
CSS 442 Agricultural Ecology 3
CSS 455 Pollutants in the Soil Environment 3
FOR 404 Forest Ecology 3
FW 417 Wetland Ecology and Management 3
FW 420 Stream Ecology 3
FW 443 Restoration Ecology 3

These requirements are effective for students admitted to the Biosystems Engineering major beginning Fall 2011. The Department of Biosystems and Agricultural Engineering (BAE) constantly reviews program requirements and reserves the right to make changes as necessary. Consequently, each student is strongly encouraged to consult with his/her adviser to obtain assistance in planning an appropriate schedule of courses. Students who have questions about Biosystems Engineering should contact the Biosystems Engineering Advising Office, 103 B Farrall Hall, phone (517) 355-3274. For scheduling academic advising appointments visit: https://www.egr.msu.edu/adcalendar/

Last revised May 2011
Biosystems Engineering

Sample Program

Freshman Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
<th>Spring Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE 101 1</td>
<td>BS 161 3</td>
</tr>
<tr>
<td>CEM 141 4</td>
<td>EGR 102 2</td>
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<tr>
<td>CEM 161 1</td>
<td>ISS 2XX 4</td>
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<tr>
<td>EGR 100 2</td>
<td>MTH 133 4</td>
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<td>PHY 183 4</td>
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<td>WRA 1XX 4</td>
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<tr>
<td><strong>Total 15</strong></td>
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Sophomore Year

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<tbody>
<tr>
<td>BE 162 3</td>
<td>BE 230 3</td>
</tr>
<tr>
<td>IAH 201-210 (A) 4</td>
<td>CE 221 3</td>
</tr>
<tr>
<td>MTH 234 4</td>
<td>CEM 143 4</td>
</tr>
<tr>
<td>PHY 184 4</td>
<td>IAH 211 or higher (B) 4</td>
</tr>
<tr>
<td>MTH 235 3</td>
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<tr>
<td><strong>Total 17</strong></td>
<td><strong>Total 17</strong></td>
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</table>

Junior Year

<table>
<thead>
<tr>
<th>Fall Credits</th>
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</thead>
<tbody>
<tr>
<td>BE 332 3</td>
<td>BE 350 3</td>
</tr>
<tr>
<td>BE 334 3</td>
<td>BE 360 3</td>
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<tr>
<td>BE 351 3</td>
<td>BE 385 3</td>
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<tr>
<td>CE 321 4</td>
<td>BE Choice C 3-4</td>
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<tr>
<td>ISS 3XX 4</td>
<td>Elective 3</td>
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<td><strong>Total 15-16</strong></td>
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Senior Year

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<tr>
<th>Fall Credits</th>
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</thead>
<tbody>
<tr>
<td>BE 485 3</td>
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<td>BE Choice E 3</td>
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<tr>
<td>BE Choice E 3</td>
<td>Elective 3</td>
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<tr>
<td>Elective 3</td>
<td>Elective 3</td>
</tr>
<tr>
<td>BE Choice E 3</td>
<td></td>
</tr>
<tr>
<td><strong>Total 15-16</strong></td>
<td><strong>Total 15</strong></td>
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</table>

PROGRAM EDUCATIONAL OBJECTIVES

The overall purpose of the MSU Biosystems Engineering Undergraduate Program is to prepare graduates who will integrate and apply principles of engineering and biology to a wide variety of globally important problems. To achieve that purpose, the primary objectives of the Biosystems Engineering Program are to prepare graduates to:

- identify and solve problems at the interface of biology and engineering, using modern engineering techniques and the systems approach, and
- analyze, design, and control components, systems, and processes that involve critical biological components.

Additionally, the Biosystems Engineering Program is designed to help graduates succeed in diverse careers by developing a professional foundation that includes vision, adaptability, creativity, a practical mindset, effective communication skills for technical and non-technical audiences, the ability to work in diverse, cross-disciplinary teams, and a commitment to sustainability, continuing professional growth, and ethical conduct.

Approved by the Biosystems Engineering faculty (26 February 2010), the Biosystems Engineering Industry Advisory Board (15 April 2010), and the Biosystems Engineering Student Group (30 April 2010).
### December 2014
- Brickner, Danielle
- Erickson, Nichole
- Plouff, Andrew
- Venn, John

### May/August 2015
- Boileau, Danielle
- Brissette, Quincy
- Bruhn, Robert Caleb
- Collings, Travis
- Flynn, Lucas
- Folkertsma, Taylor
- Gregory, Elizabeth
- Grinvalds, Andris
- Guyer, Kyle
- Innis, Dimitrius
- Jones, Stephen
- Kruse, Nicole
- Kurzeja, Rachel
- Madrigal-Martinez, Mariana
- Merhi, Celina
- Nguyen, Kristine
- Otwell, Julia
- Prochazka, Lauren
- Ross, Christopher
- Rubin, Scott
- Smith, Brian
- Stoffel, Andrew
- Tocco, Mackenzie
- VanderKolk, Allison
- Walby, Samantha
- Whitlow, Alexander
- Wloch, Alexis

### December 2015
- Dai, Xuhao
- Kelley, Mitchell
- Lawrence, Brody
- Masell, Gina
- Pichner, Hannah

### 2016
- Bailey, Ben
- Baxter, Alexis
- Boucher, Joshua
- Brown, Andrew
- Buchholz, Sarah
- Buckner, Larry
- Cloonan, Brendan
- Crosset, Paige
- Munro, Robert
- Thelen, Jacqueline
- Walker, Christopher
- Wissler, Austin

### 2017
- Drogosh, Peter
- Earls, Breanna
- Isaguirre, Christine
- Majeski, Nathan
- Morley, Megan
- Vasher, Matthew
- Ziegler, Ryan

### 2018
- Linda Lay

### Recent Graduates/Graduate Students
- Coleman, Matthew
- Murali, Bharathi
- Palmer, Jessica
- Sak, Rachael
- Zhong, Yingkui
DANIELLE BRICKNER
3179 Kenicott Drive, Walled Lake, MI 48390 | (248) 880-6010 | brickn13@msu.edu

OBJECTIVE
Seeking a full time engineering position working in product development, research, or sustainability that will challenge my problem solving, design, and analytical skills

EDUCATION
Michigan State University – GPA: 3.3/4.0 September 2010 -
Bachelor of Science Biosystems Engineering Expected December 2014
- Engineering Leadership Advantage Program
- Awarded the Howard & Esther McColly Scholarship, 2012
- Deans List – two terms
Walled Lake Central High School – GPA: 3.74/4.0 June 2010

WORK EXPERIENCE
Quality Assurance Intern
Garden Fresh Gourmet, Ferndale, Michigan May 2014 – Present
- Perform and analyze capability studies on various food lines
- Test for environmental and microbial growth
- Calculate process capability and process capability index
- Create specifications on salt and sugar, and drain weight on food products
- Write and Analyze specifications for food lines

Research Assistant
Engineering Undergraduate Research, Michigan State University June 2013 – Present
- Research for Dr. F. Pan
- Independently testing the higher heating value of woody biomass using a bomb calorimeter
- Computing and statistically analyzing the moisture content of the higher heating value in Microsoft Excel
- Drying and grinding samples of biomass to be used for the research

Research Assistant
Engineering Undergraduate Research, Michigan State University February 2013 – July 2013
- Research for Dr. C. Saffron
- Conducted electrocatalysis of bio-oil from fast pyrolysis

Research Assistant Intern
Henry Ford Hospital, Detroit, Michigan Summers 2011 and 2012
- Shadowed an Interventional Cardiologist.
- Observed Catheration Laboratory Procedures: angioplasty, valve replacement, ASD and PFO Closures.
- Observed Stress Tests EKGs and Ultrasounds.
- Research project – wrote rationale, created spreadsheet and extracted data for project.

SKILLS
Microsoft Visual Basic          Communication Skills          Social Media
MATLAB                        Leadership                               Analysis
Microsoft Office Suite        Team player                   Organization

CLUBS AND ACTIVITIES
Biosystems Engineering Club – Social Chair 2010 - present
Hasbara Fellow 2011 – 2012
  Planned advocacy and humanitarian programs for students, staff, and the East Lansing community
Team Israel Advocacy Chair of the Jewish Student Union 2011 - 2012
  Supervised seven interns, planned and executed programs, and wrote grant proposals
Future Leaders – Hillel 2011
  Learned leadership skills, organizational skills, and performed community Service
Walled Lake Central Marching Band 2006 - 2010
National Honor Society Walled Lake Central High School 2009 - 2010
Career Objective
Results driven engineer seeking employment with a progressive company where highly motivated experience and education can be utilized to their fullest potential while becoming a licensed, professional engineer.

Education
Michigan State University (MSU), East Lansing, MI
- Bachelors of Science, Biosystems Engineering Expected Dec. 2014
- Dean’s List 2012, 2013, 2014
- GPA 3.87/4.00
- Ray Giffels Memorial Engineering Scholarship Fall 2014

Work Experience
Research Assistant, MSU, East Lansing, MI Sept. 2012-Present
- Conduct electrocatalysis of bio-oil from fast pyrolysis
- Analyze data using GC/MS, Karl Fischer Titration, and TGA equipment
- Perform techno-economic analysis for the electrocatalysis model
- Develop hydrotreatment technology using AspenPlus

- Assisted with loans that fit their personal and financial goals within the Consumer Lending Division
- US division of HSBC closed in April 2009

- First mortgage broker, agent of record with the State of Michigan
- Start up mortgage company that structuring programs for economically challenged individuals

- Managed all business transactions that occurred within the company
- Collected, managed, and evaluated appropriate financial information to secure loan approvals

Design Manager, Eagle Rock Home and Garden, Bend, OR Mar. 2005-Jan. 2006
- Managed and motivated a design team
- Directed front and back systems of a retail operation
- Delivered high standards of sales goals and successfully achieved them on a monthly basis

Selected Publications and Presentations


Andrew W. Plouff
3023 N. Blair - Royal Oak, MI 48073 - dwplouff@gmail.com
248-837-9746

Education

Michigan State University; East Lansing, MI 2010-Present
• B.S. Biosystems Engineering
• GPA 3.3/4.0
• Dean's list Spring 2011
• Completed all required Biosystems Engineering courses including: food engineering fluids and solids, biosensors and medical diagnostics, food microbiology, thermodynamics, heat and mass transfer, microbial systems, electronics, and industry driven senior design course
• Designed above and below ground cold storage systems for the Student Organic Farm
• Self-taught experience with AutoCAD

High School; Royal Oak, MI
• 3 years varsity soccer and senior captain
• Academic award of excellence all 4 years
• National Honors Society
• Engineering Excellence Award

Experience

R&D Engineering: Bemis Company, Neenah, WI Summer 2014-Present
• Experience in a plant, office, and laboratory setting
• Organized and supervised multiple projects start to finish for customers and internal use
• Conducted laboratory testing and procedures for projects
• Traveled to multiple customer’s facilities for testing and auditing
• Utilized the collaboration of multiple divisions within the company to accomplish goals

Busser/Cook/Server: Leo’s Coney Island, East Lansing, MI Summer 2013-Fall 2013
• Experience in training new employees
• Understands all floor operations, maintenance, closing procedure and time management

In-shop employee: Jimmy Johns, East Lansing, MI 2011-Summer 2013
• Facilitated processes to increase worker efficiency
• Trained new employees

Cashier/Bagger: Holiday Market, Royal Oak, MI Nov 2007-July 2010
• Delegated closing procedures of the store
• Understanding of how to handle cash and customers

Job Shadows/Other
• Job shadowed GE’s combined-cycle power plant, Barcelona, Spain
• Constructed an electric powered one man car including welding and front end chassis work
• Programmed and machined multiple pieces using Master Cam and CNC machining
• Functions extremely well within a team and a can-do attitude
Objective
- Obtain a summer job/research in an Engineering or a Science field.

Education
Michigan State University, East Lansing, MI Aug 2010-December 2014
- Bachelor of Science in Biosystems Engineering, Biomedical Concentration
- GPA 3.63/4.0
- Dean’s List five out of six semesters
The Prairie School, Racine, WI September 2006-June 2010
- Achieved honor roll all four years

Experience
Research Assistant, East Lansing, MI Summer 2013
- Tested effects of Low Impact Development Sites on stormwater
- Studied past experiments written on stormwater cleansing
Pettibone’s Home Service, Racine, WI Summers 2011 & 2012
- Assisted owner in home improvement projects
- Accommodated client’s needs for specific yard services
Interned at the Pleasant Prairie RecPlex, Pleasant Prairie, WI Spring 2010
- Organized teams, prepared fields, and scheduled umpires
Racine Youth Sports, Racine, WI Summer 2010
- Umpired youth baseball games
Interned at Kenosha Water Utility, Kenosha, WI Summer 2009
- Collected data from water mains after rainstorm
- Monitored proposals for water and sewage lines
High School Captain, Basketball and Baseball, The Prairie School 2009-2010
- Invigorated team members through positive reinforcement
- Directed practices and out of school events

Volunteer Experience
Kenosha Public Baseball Parks, Kenosha, WI 2008-Present
- Groomed and maintained several baseball fields
Moose Lodge, Kenosha, WI 2006-Present
- Encouraged underprivileged children during many charity events

Extracurricular Activities
Michigan State Club Baseball Team September 2010-Present
- Played, recruited and judged talent for our baseball team
- Coordinated fundraisers to financially support the organization
Biosystems Engineering Club 2010-Present
Engineering Student Ambassador 2013-Present
Physicians, Southeastern WI 2012
- Observed numerous physicians with different specialties
Kenosha Bobcats Baseball team, Kenosha, WI Summers 2011 & 2012
- Played on a semi professional baseball team

Honors and Awards
- Edward W. Weidner Scholastic Award 2010
- Honored with Male Career Athlete for the Class of 2010 2010
Danielle Boileau
248-495-3826          boileaud@msu.edu
Permanent: 1436 Olympia Dr, Rochester MI 48306
Campus: 137 Northlawn St, East Lansing MI 48823

Education

Michigan State University, East Lansing
Bachelor of Science in Biosystems Engineering          May 2015

- Concentration: Biomedical and Bioenergy
- GPA 3.61/4.0
- Dean’s List, Society for Women Engineers, Biosystems Engineering Club

Professional Experience

Research Assistant at Michigan State University          May 2013 - Present

- Evaluated growth kinetics and productivity of wild-type *Chlamydomonas reinhardtii*
  and a transgenic strain that produces β-amylase under different culture conditions
- Analyzed algal composition, enzyme activity, and enzymatic hydrolysis on wild-type and transgenic strains
- Performed fungal lipid extraction using Folch method and Soxhlet hexane extraction

Research Assistant at Oakland University          May-August 2012

- Undergraduate Computer Research mentored by Dr. Jia Li and funded by the NSF
- Collaborated with a team including other undergraduate students, University professors, and a doctor from Beaumont Hospital
- Wrote a MATLAB program that utilizes statistical features to analyze MRIs and detect prostate tumors

Presentations

“Two-Stage Cultivation for Production of Microalgal Carbohydrates”          July 2014

- Mid-Michigan Symposium for Undergraduate Research (Mid-SURE) in East Lansing, Michigan

“Continuous Culture of Microalgae C. reinhardtii”          July 2013

- Mid-SURE in East Lansing, Michigan

“Texture Analysis of MRI Images for Prostate Tumor Detection”          July 2013

- Mid-SURE in East Lansing, Michigan

Leadership and Volunteering

Mosaic InterVarsity Christian Fellowship          Fall 2012-Present

- Leadership Team, Large Group Coordinator          May 2014-Present

Red Cross Volunteer          Fall 2012-Present

- Working at blood drives around campus and at the Lansing shelter
- Spring 2013 Outstanding Service Award

Team Leader of Corn and Soybean Life Cycle Analysis          Spring 2014

- Initiated by Michigan Soybean Committee
Statement:
Entry-level Biosystems engineer seeking an opportunity to apply first-hand knowledge in the agricultural/food sector, with current engineering studies, specifically for research and development in an agricultural, environmental, or bioenergy based field. Able to bring dedication coupled with reliability, experience, innovative ideas, leadership, and enthusiasm to any work environment.

Education:
Michigan State University    East Lansing, MI → Fall 2011
Bachelor of Biosystems Engineering → August 2015
Cumulative G.P.A. 3.6-Dean’s List

Work Experience:
Pepsico: Frito-Lay Dayville, CT → Summer 2014
KPM/LM Data Tracking and Analysis
-Developed an integrated system allowing for accurate visibility within the daily operations of the warehouse
-Reduced resource time report pulling and analysis by 4 hours/day saving $50,000 annually
SIS and Crewing Model
-Lead a deep dive analysis to optimize and implement a reliable crewing model for the Wooster, Ohio factory

Pepsico: Frito-Lay Dayville, CT → Summer 2013
Inventory Analysis/Reduction
-Reduced maintenance storeroom inventory by $100,000 through deleting obsolete/low use items
-Cut spending by 66% and increased delivery reliability on steel purchases through resourcing vendors
-Created a business connection with Radwell Int. for inventory buyback with monetary return to site
-Established the foundation for major 5S undertaking in maintenance storeroom

Ed Mantey & Sons Inc. Fairgrove, MI → 2007-2012
Crew Supervisor
-Lead, motivated, and organized a crew of 75+ employees for hoeing and detasseling organic seed corn
-Kept employee productivity and efficiency high by leading through example
-Created detasseling, rogueing, and hoeing crew agendas on a day to day basis
-Operated heavy machinery both in and out of the fields. (Tractors, fork lifts, front end loaders)

Field Researcher → 2009-2012
-Inspected seed corn plots for silk emersion, pollen release, rogue count, etc.
-Collected and recorded data from a seed corn plot to be used for analysis for specific seed traits
-Conducted stand counts in fields to obtain estimates for upcoming yields and losses post planting

Irrigation
-Created field specific watering programs for overhead pivot irrigation systems
-Managed eight separate fields of sub-irrigation through slide backups and slide removal
-Kept record of well depth for the irrigation systems to ensure water table stability
-Extensive zoning, headstand, pond irrigation, well/crock, and phase converter knowledge

Computer Skills:
Excel and VBA programming, MATLAB, LabView, ICS, Kronos, LM, Avantis, Word, PowerPoint, and Outlook

Accomplishments:
-Lift truck operator certification through Frito-Lay Inc. North America
-Participated in a three week mission trip to Lukulu in Zambia, Africa to build up local infrastructure.
-Member of the Biosystems Engineering Club at Michigan State University
-Valedictorian at Bay City All Saints Central in Bay City Michigan
-Induction into the Michigan State University Ultimate Frisbee 1st team
Robert Caleb Bruhn  
(248) 877-3198 | bruhnrob@msu.edu | 67 Cherryland St, Auburn Hills, MI 48326

Education

Michigan State University | East Lansing, MI  
Bachelor of Science, Biosystems Engineering  
- GPA: 3.87/4.00  
- Concentrations: Food Engineering and Bioenergy Engineering  
Expected May 2015

Oakland Community College | Bloomfield Hills, MI  
2011-2013

Relevant Coursework
- Principles of Food Science; Introductory Microbiology; Biology of Fungi; Food Microbiology; Food Processing: Cereals; Biosensors for Medical Diagnostics; Bioenergy Feedstock Production.  
Currently: Fruit/Vegetable Processing; Food Engineering: Fluids; Biomass Conversion Engineering.

University Community Involvement

MSU Biosystems Engineering Club | President (May 2014-Present); Secretary (2013-2014)  
May 2013-Present
- Empower officers to set and achieve high goals.
- Coordinate officer efforts into a cohesive master plan.
- Communicated dates and activities to Club members. Rallied consistent attendance of about 15.

Spartan Christian Fellowship | Member, Student Leader  
Sep 2012-Present
- Facilitate a diversity of people in understanding and practicing Christian faith.

Professional Experience

Team Member | Meijer #257; #025 | Petoskey, MI; Okemos, MI  
May 2014-Present
- Gain experience within General Merchandise, Grocery, and Service.
- Organize product and respond immediately to all spills to ensure safety.
- Contributed to record summer sales and friendly scores through punctuality, cheerfulness, and hard work.

Undergraduate Research Assistant | Michigan State University | East Lansing, MI  
Nov 2013-Present
- Collect carrot fiber-content data to help develop a non-invasive measurement unit based on spectroscopy.
- Determine a method for labeling hundreds of damp samples without sensitive equipment degradation.
- Optimize methods used to delineate data into over 1,500 images to require minimal time and effort.

Level I Student Employee | East Neighborhood Dining Services | East Lansing, MI  
Aug 2012-May 2014
- Mentored fellow student workers in proper food service techniques.
- Collaborated with coworkers in providing positive dining experiences to >1,500 customers/day.
- Acquired food-service industry knowledge of usability and popularity of food products and equipment.

Intern | Michigan State University Extension | East Lansing, MI  
May 2013-Aug 2013
- Researched, selected, and compiled instruction materials to be developed into a tractor safety training program compliant with USDA HOSTA regulations.
- Experienced commodity production and harvest/collection systems, and how these affect quality.
- Adapted to working with agricultural products ranging from Christmas trees to cherries to milk.
- Co-authored a technology adoption article.

Intern | Oakland University Physics Department SMaRT Program | Rochester Hills, MI  
May 2012-Jul 2012
- Prepared samples; monitored data measurement; performed data analysis.
- Presented findings to the public and Oakland University professors; also published as an abstract.
- Designed and began assembly of a pellet press with off-the-shelf parts, potentially saving over $2,400.

Skills
- Working knowledge of Microsoft Excel, Word, Power Point, Expression Web; MATLAB; LabVIEW; AutoCAD software.
- Trained on use of Brix meter, pull-force meter, firmness tester, Falling Number machine, Farinograph, Alveograph, pellet press, and ceramic tube oven.
- Previously certified to use x-ray diffractometer.
Travis Collings
3275 Glassburner Road, Bad Axe, MI 48413
(989)-975-2708 - colli511@msu.edu

OBJECTIVE
To obtain an internship position for the summer of 2014, where I can improve my skills and maximize my technical experience while working alongside engineers and other team members.

EDUCATION
Bachelor of Science, Biosystems Engineering – Bioenergy East Lansing, Michigan
Bachelor of Science, Mechanical Engineering Expected Graduation: Spring 2015
College of Engineering, College of Natural Science
Michigan State University – GPA 3.54 / 4.0 scale

EXPERIENCE
Ford Motor Company Dearborn, Michigan
Research and Advanced Engineering May – August, 2013
Systems Analytics and Environmental Sciences
• Implemented test plans for aging biodiesel blends with and without antioxidants
• Examined oxidation stability and fuel degradation products including Rancimat and PetroOxy stability time, Peroxide Value, Total Acid Number, and FAME composition
• Investigated effects of adding fresh fuel to aged fuel at biodiesel fuel system temperatures

Ford Motor Company Dearborn, Michigan
Research and Advanced Engineering May – August, 2012
Engine Development through Dynamometer Evaluation
• Developed and executed test plan for analysis of ethanol-gasoline blended fuels
• Examined dynamometer data for effects from various fuels and compression ratios

Michigan State University College of Engineering East Lansing, Michigan
Cornerstone and Residential Engineering Peer Leader 2011-2013 academic years
• Communicated information to students about resources, opportunities, and engineering
• Developed conceptual programs that provided helpful insight about engineering concepts
• Managed engineering team members in designing innovative and creative ideas

TECHNICAL SKILLS
• Experienced in Microsoft Office: Word, Excel, PowerPoint and NX 8.0 modeling
• Experienced with woodworking, machine shop, laboratory and experimental research
• Proficient with multi-tasking, problem solving, communicating, technical writing, and working in a fast-paced team environment
• Speak, read, and write Mandarin Chinese at a beginner/intermediate level

AWARDS / ACHIEVEMENTS
• Awarded to the Dean’s List at MSU – Spring 2011, Fall 2012
• Member of National Honor Society and National Society of Leadership and Success
• Spartan Excellence Scholarship recipient, Gordon W. and Loyse B. Hueschen Scholarship recipient, Steven Kuyzac Golf Scholarship recipient

References available upon request
Lucas Flynn
1174 Snyder Road, East Lansing MI, 48823
(810)-210-4242   flynnluc@msu.edu

Objective
To obtain a full-time position in biosystems engineering, preferably in a field related to energy or waste management

Education
Michigan State University, East Lansing, MI: Expected Graduation    May 2015
Biosystems Engineering, focus in Bioenergy. GPA: 3.3/4.0

Experience
Shoreline Fruit-Cherry Bay Orchards, Traverse City, MI
• Aided an engineering group in design of hydraulic screw press for cherry juice
• Operated all equipment in cherry juice to concentrate line including multiple PLCs and a membrane filter system
• Optimized freezer floor space needed for expanding production
• Analyzed plant water use and managed waste water flow to irrigation pond

Biobased Renewable Energy Study Abroad Program    May 2014-June 2014
Various locations in Germany and Sweden
• Investigated various electricity generation facilities that are using renewable feedstocks
• Pioneered small scale torrefaction research project with PhD students at Luleå Technological University in Luleå, Sweden
• Constructed comprehensive economic analyses of energy policy changes in the U.S

Shift Manager    Aug 2012-Present
Pita Pit, East Lansing, MI
• Allocating employee duties while in stressful situations
• Create new marketing practices including rewards program networking with Flocktag
• Hire, train and supervise new employees

Landscaping and Irrigation Specialist    May-Aug 2012
Flushing Valley Golf Course, Flushing, MI
• Fabricated irrigation and drainage system for an area approximately 20,000 m²
• Evaluated machinery malfunctions, perform belt and axle replacements

Key Skills
• Effective communication
• Experience with TIG Welding stainless steel (not certified)
• Proficient with MATLAB, Microsoft project (work breakdown structures and time management) and Siemens NX, specifically version 9.0
• Experienced forklift driver

Extracurricular Activity
• Biosystems Engineering Club, East Lansing, MI    2011-present
• Crim Road Race Children’s Tent Volunteer, Flint, MI    2007-present
• American Red Cross Volunteer, East Lansing, MI    2011-present
• Completed Academic Scholars Program, East Lansing, MI    2011-2013
• Dean’s list, MSU, East Lansing, MI    Fall 2011-Spring 2013
• Volunteer Flag Football Coach and Baseball Umpire, Flushing, MI    2008-2012
Taylor J Folkertsma
7789 Cascade Rd SE, Grand Rapids, MI
(616) 648-7349
folkertsma.taylor@gmail.com

Education

Michigan State University, East Lansing, MI
Biosystems Engineering
Concentration in Food Science (3.0)
Biosystems Engineering Club, member

Experience

Renewable bioenergy systems study abroad
Sweden and Germany
- Gained knowledge of renewable resources in the classroom
- Broadened experience through on-site tours
- Adapted to the wide variety of culture in Germany and Sweden

Big Ten Division I Student-Athlete
Michigan State University - East Lansing, MI
- Managed 20 hours of training each week while upholding a consistent GPA
- Improved communication skills by working with multiple teammates, coaches, and academic support staff
- Granted a Swimming & Diving athletic scholarship
- Varsity record holder

Team Leader, Landscape Maintenance
Alternative Lawncare – Rockford, MI
- Lead the maintenance team in various tasks
- Communicated with team members to make sure everything was getting done properly

Waitress
Pizza Hut – Grand Rapids, MI
- Trained and assisted new wait staff
- Maintained a clean and productive work environment
- Communicated with a diverse group of people via phone and face-to-face

Community Service
Michigan State University - East Lansing, MI
- Led group activities and provided a safe and fun environment
- Promoted the MSU Swimming & Diving team in a positive way
- Assisted in directing a Christmas event for The Salvation Army
- Raised money and awareness for Relay for Life

Mission Trip – Waveland, MS
- Assisted in Hurricane Katrina relief
- Facilitated group discussions
Objective

I am interested in employment where I can contribute to an organization pertaining to the safety and quality standards of food and water by applying what I’ve learned through my education and previous work experience.

Experience

Student Assistant, Michigan State University Graduate School
East Lansing, MI — November 2013-Present

- Assist office staff with clerical work and organizing files.
- Answer phones and assist in questions pertaining to the graduate school.
- Review and correct formatting of graduate students’ electronic theses and dissertations.

Instrument/Controls Co-Op, SSOE, Inc.
Midland, MI — June 2011-August 2012

- Worked with Excel and CADD, specifically Microstation.
- Reviewed and analyzed P&ID drawings.
- Interacted with clients from different companies.
- Visited project facilities and participated in fieldwork.
- Organized and set up PDFs for projects pertaining to clients.

Concessions and Usher, NCG Cinemas
Midland, MI — June 2009-March 2010

- Served concessions which involved food preparation and monetary transactions.
- Ushered which involved taking tickets, inspecting the theaters and clean-up.
- Worked well with the general public and NCG employees.

Education

Michigan State University
Bachelor of Science, September 2010-Expected May 2015

- Degree in Biosystems Engineering
- Concentration in Food Engineering
- GPA 3.0/4.0
- Dean’s List Fall of 2011

Activities

- Completed the 2010 Leadership Advantage Program at MSU, an extensive three-day program for prospective engineers to practice leadership skills, teamwork, and abstract thinking.
- Designed and built a small scale trebuchet for Leadership Advantage.
- Selected to facilitate the 2011-2013 Leadership Advantage Programs at MSU and served as the Recruitment Chair for the 2012 program.
- Was in Journalism at Midland High School’s Focus, acting as a staff writ
Andris Grinvalds
223 Oakhill Ave, East Lansing, MI, 48823
Phone: 269-370-3379 E-Mail: grinvald@msu.edu

Education
Michigan State University; East Lansing, Michigan
Biosystems Engineering, B.S. May 2015
• Concentration in Biomedical Engineering
• Specialization in Beverage Science and Technology
• Heavy emphasis in Chemistry
• Scientific GPA: 3.36/4.00 Cumulative GPA: 3.35/4.00

Employment Experience
Latvian Center Garezers; Three Rivers, MI
Counselor June-August 2014
• Responsibilities included supervision and activity development for senior class in a total immersion Latvian language high school language program

Certified Lifeguard Summer 2010 / 2011
• Guarded campers during a seven week Latvian language immersion program

Additional Experience
Volunteer Tutor for chemistry and mathematics
Assisted at MSU Men’s Club Volleyball events with set-up, registration, food and take-down

Skills
• Fluent in Latvian and English, can communicate in Spanish
• Proficient in Microsoft Office: Word, Excel, PowerPoint
• Knowledgeable in mathematics and chemistry
• Highly experienced with biology and chemistry laboratory techniques
• Organized with high attention to detail
• Independent thinker as well as a strong team player

Activities
• Michigan State Men’s Volleyball Club; Fall 2010-Present
• Member of the American Latvian Youth Association; 2007-Present
To obtain a growth opportunity, in the form of an internship or co-op, to gain valuable experience, develop leadership skills in a professional setting, and build upon my current knowledge of the biosystems engineering field.

EDUCATION:

- **Michigan State University**, East Lansing, MI  
  Bachelor of Science, **Biosystems Engineering**  
  **Food Engineering Concentration**  
  Academic Scholars Program (Honors courses)  
  GPA: 3.2/4.0  
  Sept. 2011- Current  
  Expected May 2015

EXPERIENCE:

**Internship – Nestle/Gerber**  
- Fremont, MI  
  Summer 2014  
  Unique process validation experience, installation of brand new processing line  
  Worked on thermal and microbiological processes, lethality, viscosity  
  Data collection and analysis using various programs (ParticleMon, Comsol, Excel)  
  Extensive work in extremely diverse teams

**Internship – Neogen Corporation**  
- Lansing, MI  
  Summer 2013  
  R&D division, testing food-borne pathogen detection technology  
  Immersion into microbiology field and lab setting  
  Learned and performed advanced laboratory practices

**Undergraduate Research Assistant**  
- Dr. Kirk Dolan  
- Michigan State University  
  Summer 2013  
  Food Engineering research  
  Estimation of thermal properties of low moisture foods  
  Investigation of microbial deactivation temperatures, such as Salmonella

**Intramural and Recreational Sports Supervisor**  
- Michigan State University  
  Jan. 2012 – Current  
  Management and work at a facility that does more than 1 million dollars in sales a year  
  Strive to maintain the facility so as to provide patrons with the best possible experience  
  Utilize communication skills and diverse background to quickly and respectfully solve problems

EXTRACURRICULARS:

**College of Engineering International Corporate Tour**  
- England, Italy, Switzerland, Germany  
  May 2013  
  Unique and valuable experience abroad observing how global business and production are conducted  
  Companies: Nestle, BP, Whirlpool, Bosch, Eaton, Fiat, Procter & Gamble

**College of Engineering Spring Break Corporate Tour**  
- Omaha, NE & Iowa City, IA  
  March 2013  
  Valuable insight into the corporate world and processes of engineering companies  
  Companies: ConAgra, Kellogg’s, Union Pacific, Gallup, Procter & Gamble

**Biosystems Engineering 230 Honors Option Laboratory Experience**  
- Jan. 2013 – May 2013  
  Out of class laboratory experience involving experiments covering all aspects of Biosystems Engineering

**Biosystems Engineering Club Officer**  
- Sept. 2012 – Current  
  Industry Advisory Board Representative  
  Participate in meetings with engineering companies, peer networking, and professional development

**Intramural Sports**  
- Sept. 2011 – Current  
  Participated in basketball and softball with fellow engineers

SKILLS:

- Basic knowledge of the Spanish language  
- Proficient in Microsoft Word, PowerPoint, and Excel  
- Experience with MATLAB and AutoCAD
Dimitrius G. Innis
(231)742-0295 / innisdim@msu.edu
PO Box 803, Hart, MI 49420

Education

Michigan State University, East Lansing, MI
• Biosystems Engineering, Bachelor of Science
• GPA - 3.51/4.0 – Dean List
Muskegon Community College, Muskegon, MI
• GPA - 3.5/4.0

Expected May 2015
Dec 2012 – Dec 2013
Aug 2010 – May 2012

Experience

Research Assistant, Anaerobic Digestion Research, MSU, East Lansing, MI
• Oversee daily process of 250,000 gallon and 400,000 gallon anaerobic digesters
• Analyze daily digestate samples
• Develop water savings by optimizing plate cooler volumetric flow

May 2013 – Present

Quality Assurance Co-op, Unilever, Raeford, NC
• Updated Wash Matrix to reduce energy and water usage by 30% while increasing production
• Lead focus improvement group to eliminate nonconforming product
• Evaluated product daily to ensure quality goods
• Developed operation training program

Jan – Aug 2014

Engineering Mentor, Michigan State, East Lansing, MI
• Engaged in development of basic engineering skills by team building exercises
• Assisted 30 students with programming, conduction and radiation heat transfer projects

Jan – May 2013

Research, Department of Plant, Soil and Microbial Science, MSU, East Lansing, MI
• Researched synergistic effects of catanionic surfactant mixture of nanoparticles
• Extended knowledge of the cutting-edge research in the treatment of ground water

Dec 2012 – May 2013

Sales, Klotz Auto Parts, Shelby, MI
• Inventoried stock quantity daily to establish product availability
• Arranged delivery service for customer convenience

May 2006 – Aug 2013

Ecological Engineering Study Abroad, Costa Rica
• Analyzed sustainability of anthropogenic systems to produce water, energy, and food
• Designed ecosystem and bioenergy system to filter biomass wastewater
• Traced and accounted for biomass, water, and energy footprint from start to finish in ecosystem
• Supported faculty with the daily schedule and promoting student involvement

Dec 2012

Honors and Extracurricular

• Triangle Fraternity
  o Greek Philanthropy – coordinate charity events with Greek life
  o Athletic Chair- managed six intramural sport and nutrition advisor
  o Rush Chair – organized a week for 100 people and brought in largest class
• Biosystems Engineering Club, Student Engineering Council Liaison, ASABE Rep
• Stryker Challenge Competition
  o Biomedical, mechanical and electrical challenges
• National Triangle Education Foundation
• Collegiate Baseball Captain
• President of Science Technology Engineering Mathematics Club
• Tutor – Algebra-Calculus II

Oct 2012 – Present
Aug 2014 – Present
Jan – May 2013
May – Dec 2013
Sept 2012 – Present
Oct 2013
Aug 2013 – May 2014
Jun 2011 – May 2012
Aug 2010 – May 2012
Oct 2010 – May 2012

Computer

• Proficient in Microsoft Office – Excel, PowerPoint, Visio, Word
• Basic C, C++ Programming
• AutoCAD, LabVIEW, MATLAB, NX Programming
• Project Management
**Education**

**Michigan State University**  
Bachelor of Science in Biosystems Engineering  
Expected Graduation: May 2015  
GPA: 2.82/4.00

**Experience**

**Senior Design Project**  
College of Engineering & JBT Foodtech  
* Aug 2014 – Present  
- Manage all technical designs and modeling  
- Schedule overall project to maintain progress toward deadline

**E-Text Manager & Technical Support Staff**  
Resource Center for Persons with Disabilities  
* Aug 2014 – Present  
- Provide technical support and education for students and faculty.  
- Facilitate the conversion of hard text to electronic format  
- Manage the volunteers that assist in day-to-day operations of the office

**Resident Assistant**  
Residence Education & Housing Services  
* May 2012 – Present  
- Building and sustaining a safe, secure and open community for residents  
- Engineering and allocating events to show residents campus and ways to interact with other students

**Process Analysis & Project Management Intern**  
FC Mason Co.  
* May – Aug 2014  
- Observe procedure, analyze performance, hold technical studies, & increase efficiencies in procedures  
- Develop a process that maximizes inputs to generate most manufacturing processes  
- Identifying, analyzing & resolving manufacturing opportunities to standardizing processes

**Service Center Representative**  
Residence Education & Housing Services  
* Jan – Aug 2014  
- Dealing directly with customers by telephone, electronically and personally  
- Responding to customer inquiries and complaints on time  
- Managing administration and communicating & coordinating with internal departments.

**Diversity Programs Office Tutor**  
College of Engineering  
* Nov 2012 – Oct 2013  
- Conduct individualized tutorial sessions for students with academic deficiencies  
- Designs & implements exercises and activities to facilitate student’s academic improvement  
- Maintains all records required to document student’s attendance and academic progress

**Engineering Science Summer Academy Mentor**  
College of Engineering  
* Jun – Aug 2012  
- Administered programs to integrate incoming freshmen to life on campus  
- Ascertained to the academic and social progress of participants with emphasis on technical studies

**Research Assistant**  
College of Engineering  
* May – Jun 2011  
- Analyzed and identified vortex patterns of MAVs to determine practical application  
- Presented research at the CIC conference at The Ohio State University

**Skills**

- NX 8.5 Modeling, DAQ, SIMULINK, MATLAB, Six Sigma, SPSS,  
- Effective Communication Skills  
- Scheduling

**Leadership/Honors/Volunteering**

- National Society of Collegiate Scholars  
  Jan 2012  
- Phi Sigma Theta National Honors Society  
  Jan 2012  
- Dean’s List, College of Engineering  
  Dec 2010  
- Taking It to the Streets  
Nicole Kruse

321 Elm St.                                                                         krusenic@msu.edu
East Lansing, MI 48823 (248) 756-6923

Objective: To engage in a career in the Biosystems Engineering related field by expanding my experience, leadership, and creativity, while applying my background to make a contribution to the field.

Education: Michigan State University, East Lansing, MI Aug. 2012-May 2015 (expected)
Bachelor of Science in Biosystems Engineering, Computer Science Minor
• Member of Honors College
• GPA 3.62/4.00

International Food Laws Study Abroad May 2014-June 2014
UK, France, Switzerland, Italy
• Explored risk assessment, management, and communication in regards to food safety
• Visited the WHO, WTO, and EFSA
• Overcame language and cultural barriers in a diverse professional environment

Experience: Intern at the Michigan Department of Environmental Quality Aug. 2014-present
Lansing, MI
• Manage small and large teams, as well as contribute to teams led by others
• Utilize technology resources for data management, typically survey response data
• Update Environmental Management Systems manual to better portray new policy
• Design engineering project with the Remediation and Redevelopment Division

Tutor at MSU Student-Athlete Support Services Jan. 2014-present
East Lansing, MI
• Lead individual and group tutoring sessions primarily for computer science classes
• Motivate student athletes struggling in academics to take interest in education
• Guide students on how to make difficult classes manageable, and monitor their progress

Livonia, MI
• Operated machinery on the plant floor, working hands-on and rotating various jobs
• Performed lab tests as check points in production to ensure food safety and quality
• Participated in meetings regarding production, quality, and continuous improvement

Computer Skills: Programming experience with C++, Java, Python, Visual Basic, JavaScript
Office Productivity Suite

Rachel Kurzeja

rachelkurzeja@gmail.com  ♦  3697 Edinborough Drive, Rochester Hills, MI 48306  ♦  248-568-8555

Education

Michigan State University (MSU), East Lansing, MI
  • Bachelor of Science in Biosystems Engineering; Biomedical Engineering Concentration  Expected 08/2015
  • GPA: 3.94/4.00; Dean’s List; Honors College

Sustainable Food, Environment, and Social Systems Study Abroad, Australia  07/2012-08/2012
  • Developed a global context for sustainable systems engineering through hands-on experiences and site visits
  • Achieved great personal growth by excelling in a culturally diverse environment of students and professionals

Professional Experience

Career Peer Student Supervisor, The Center for Spartan Engineering, MSU  01/2013-Present
  • Promoted to Student Supervisor of 10 other student Career Peers in September 2014
  • Train new Career Peers on services offered such as: practice interviews, resume critiques, and networking advice
  • Plan and facilitate career fairs, interviews, networking events, and other professional development programs
  • Coordinate with two partner corporations to manage on-campus marketing strategies and assist with event planning

Shoulder Product Development Co-op, DePuy Synthes, Warsaw, IN  05/2014-08/2014; 08/2013-12/2013
  • Ensured the progress and timeline of various project portions vital to product launches and commercialization
  • Attended cadaver labs and performed shoulder replacement surgery on artificial humerus and glenoid “sawbones”
  • Collaborated with cross-functional project teams for two different implant and instrument development projects
  • Enhanced technical writing and CAD modeling skills by creating a variety of: product design rationales, design verification and validation documents, and clinical literature reviews
  • Presented frequently on progress of project portions to the shoulder department, management, and designing surgeons
  • Assisted in organizing and facilitating a full-day surgeon design validation lab for an implant and instrument system
  • Acquired knowledge of relevant shoulder anatomy, surgical techniques, instruments, and implants

Production Engineering Intern, Perrigo Company, Allegan, MI  05/2013-08/2013
  • Worked in a cGMP environment Tablet Manufacturing Value Stream that produces over 7.5 billion tablets annually
  • Led a plant-wide continuous improvement project from creation through implementation
  • Reduced waste and improved efficiency in the consumable materials supply using Lean Six Sigma Principles
  • Supported projects led by Production Engineers related to: quality, safety, production, maintenance, process validation, cleaning validation, and continuous improvement

Activities

Biosystems Engineering Club  09/2011-Present
  • Biosystems and Agricultural Engineering Academic Chair  04/2014-Present

Phi Sigma Rho Sorority  09/2011-Present
  • Vice President of Communications  12/2011-01/2013
  • Recruitment Chair  09/2011-12/2011
  • Co-Founder  09/2011

Women in Engineering Recruitment Committee  09/2011-Present
  • Co-Founder  09/2011

Women in Engineering Program  09/2011-Present
Mariana Madrigal Martinez
Madriga7@msu.edu ■ (248) 808-3572
45574 Freemont Dr. Novi, MI 48374

EDUCATION
Michigan State University (MSU), East Lansing MI
- Bachelor of Science Biosystems Engineering Expected Graduation May 2015
- GPA 3.3 / 4.0
- Charles Drew Scholar

PROFESSIONAL EXPERIENCE
Representative for College of Engineering Hearing Board; MSU, East Lansing, MI August 2014-Present
- Hear academic grievances involving graduate/undergraduate students who allege violations of academic misconduct

Biosystems Engineering Teaching Fellowship; MSU, East Lansing, MI August 2014-Present
- Promote active engagement for future Biosystems Engineering students to ensure high quality learning
- Assist professor and students for Biosystems introductory engineering classes
- Guide undergraduate students to ease their integration within the College of Engineering

Supply Chain Engineering Intern at PepsiCo-Frito Lay; Wooster, OH May 2014-August 2014
- Applied academic understanding to fulfill key projects in a real-world and the business-driven environment
- Led and managed a team of 40 employees in the Warehouse department
- Implemented an accurate and user friendly Crewing model to forecast crewing needs based on work available
- Interacted, managed, and actively learned from associates with varying levels of experience and education

Division of Engineering Research; MSU, East Lansing, MI January 2013-May 2013
- Organized and filed engineering faculty grants and research proposals
- Constructed organizational method for the office
- Hosted weekly Research Seminars for faculty and graduate students

Undergraduate Engineering Office; MSU, East Lansing, MI January 2013-May 2013
- Advised and assisted undergraduate engineering students
- Scheduled academic advisors appointments
- Handled general college questions and daily office tasks

Study Abroad- Ecological Engineering in the Tropics; Costa Rica December 2012
- Mended communication barriers
- Researched, analyzed and recommended engineering practices which would reduce the carbon, water and energy footprints/lifecycles for bananas, coffee, and rice
- Utilized ecosystems engineering to analyze sustainability of anthropogenic systems to produce water, energy, and food
- Translated, compiled, and organized biodigestor and wetland reports from various doctoral researchers

LEADERSHIP
Society of Women Engineers; MSU, East Lansing, MI December 2012-Present
- Served on e-board as Treasurer & Banquet Chair
- Planned the Evening with the Industry Banquet to network with company representatives
- Awarded scholarships for leadership and academic excellence as well as introduced key speakers and faculty
- Promoted the expansion of this professional society in order to strengthen our MSU chapter

Phi Sigma Rho Engineering Sorority; MSU, East Lansing, MI December 2012-Present
- Served on e-board as Service chair- Planning service events in order to raise money for the American Cancer Society

SKILLS
- Proficient in MATLAB, Python, Microsoft Excel,Labview, ArcGIS10.1, and Basins4.1
- Speak: Spanish, English, and conversational German

HONORS / AWARDS
Objective
Seeking a full-time position in the field of biomedical technologies or consumer goods.

Education
Michigan State University, East Lansing, MI
Bachelors of Science in Biosystems Engineering
Expected May, 2015
3.5/4.0 GPA, Dean's list

Experience
Project Technical Expert, Biosystems Design Techniques
Aug2014-Present
- Design a portable treatment for infant jaundice for easy deployment in developing countries.
- Interact with faculty regularly to customize and match deliverables with client’s expectations.
- Apply various engineering and innovative skills to satisfy specific medical, electrical, social and economic requirements.

Project Manager, Engineering Innovations for Global Health Risks
Aug2014-Present
- Identify system problems in global healthcare and the need for innovative technologies.
- Apply systematic innovation techniques such as TRIZ and QFD to propose global solutions.

Research Assistant, Cardiovascular and Tissue Mechanics Lab
Apr2014-Aug2014
- Performed CT scan segmentation using the medical image processing software, Mimics.
- Analyzed the effects of pressure, flow and arterial elastance on the cerebral circulation.
- Completed a literature review on cerebral hypertension to increase understanding of the topic.
- Attended and presented during weekly professional graduate presentations.

Group Project Leader, Engineering Design & Optimization for Biological Systems
Jan2014-May2014
- Coached a team of engineering students to design a food dehydration system for Ghana.
- Established a project management plan that defined the objectives, deliverables and WBS.

Communications Manager, Resource Center for Persons with Disabilities
Jan2012-May2012
- Facilitated communication within a team to design an artificial teaching device for measuring tools.
- Contributed with the application of assistive technology to create visual tools that simplify the use of the Vernier caliper for students with disabilities in India.

Leadership and Outreach
Phi Sigma Rho, Standards Board
Jan 2014-Present
- Support sisters and mediate with the executive board.

Biosystems Engineering Club, Secretary
Aug 2014-Present
- Coordinate club proceedings, update website and integrate effective communication strategies.

Women in Engineering Mentoring Program
Aug 2014-Present
- Mentor freshman engineering students during their transition into the college of engineering.

Grandparents’ University, event planner and coordinator
May2014-Jun2014
- Developed an educational presentation to promote STEM fields to middle school students.

The Center of Spartan Engineering, Student Event Ambassador
Sep2013, Feb2014
- Assisted employers during career fairs while representing MSU Career Services professionally.

Tutor for America Reads & America Counts
Jan2012-May2013
- Influenced and encouraged students to achieve a higher understanding of Math, Science and English.

Skills
- Advanced fluency in Arabic and French.
- Intermediate proficiency in Mimics, LabView, Matlab, MS Project, MS Excel, Google SketchUp.
Kristine Nguyen
227 Beal St, Apt #1 • East Lansing, MI 48823
48806 Castleford Dr • Canton, MI 48187
734.560.2479 • nguyenkr@msu.edu

Objective
To obtain a position that will provide advanced knowledge, experience and skill in Biosystems Engineering with a Food Concentration.

Education
Michigan State University, East Lansing, MI  Aug 2011 - Present
B.S. Biosystems Engineering with Food Concentration
GPA: 3.33

Experience
Yazaki North America, Canton, MI • May 2013 - Aug 2013
Failure Analysis Intern
- Established tested schedules and implement tests according to customer requirements
- Suggested and applied solutions to problems encountered with different testing techniques
- Evaluated and interpreted results and create test reports
- Analyzed Failed Test Automotive Electrical Components
- Performed tests with Scanning Electron Microscope, Wavelength Dispersion X-Ray, Fourier Transform Infrared Spectrometer

Levan Internists Medical Center, Livonia, MI • May 2012 - Aug 2012
Medical Records Assistant

Arby’s, Canton, MI • May 2010 - Aug 2011
Team Member

Activities/ Honors
- Biosystems Engineering Club • Sept 2013 - Present
- Order of Omega, National Honor’s Society • Sept 2013-Present
- Alpha Sigma Pi, National Honors Society - Team Leader • Dec 2012- Present
- Pi Beta Phi – Chapter President, Philanthropy Chair Assistant • Dec 2011- Dec 2013
- Dean’s List • Sept 2011- May 2012
Education

**Michigan State University**, East Lansing, MI  
**B.S. Biosystems Engineering**, GPA: 3.82/4.0  
Expected May 2015

**USAC Charles University**, Prague, Czech Republic  
Summer 2013

Professional Experience

**Food Fluids Course Grader**, Class for Biosystems Engineering, Michigan State University  
2014
- Graded excel format food engineering homework for Dr. Dolan

**Undergraduate Research Assistant**, Food Engineering Lab, Michigan State University  
2014
- Engineering Summer Undergraduate Research Experience, mentored by Dr. Gail Bornhorst
- Performed experimental studies of acid uptake into sweet potatoes
- Determined moisture content changes in sweet potatoes
- Prepared gastric juice and saliva to simulate an in vitro digestion
- Analyzed experimental data to determine trends

**Senior Design Project**, Biosystems Engineering Capstone Project, Michigan State University  
2013-2014
- Senior Design Project, Faculty Advisor, Dr. Yan Liu. Industry Advisor, Joseph Tesar, Quantalux
- Designed and constructed an integrated algal photoremediation reactor prototype system
- Designed scaled drawings and specifications for scale up
- Constructed a composition analysis of resulting algae biomass
- CAD, Excel, Microsoft Project, and data collection techniques were used

Leadership and Outreach

**SASS**- volunteer, student-athlete community events  
2012-2014
- Student athlete support services

**BE Club**- Biosystems Engineering student-run organization  
2012/2013
- **ASABE Representative**- connected BE club with ASABE

**WIE**- Women in Engineering Connect Program  
2012/2013
- Met with incoming freshman/sophomores
- Aided in college-life/engineering adjustments

Awards

- Deans List, Varsity Letter in Cross Country  
2010-14
- Capital One Academic All-District second team Track and Field  
2013
- Clarence and Thelma Hansen Scholarship  
2013
- Academic All-Big Ten honoree  
2011-2013
- First-Team Big Ten/All-region in Cross Country  
2011-2012
Lauren Prochazka
44057 North Umberland Circle | Canton, MI 48187
(734) 536-7837 | prochaz5@msu.edu

Education
Michigan State University, East Lansing, MI
Bachelor of Science, Biosystems Engineering
• G.P.A. 3.7/4.0
• Dean’s List 2011 - Present
• Honors College Jan 2012 - Present

Experience
Perrigo Company
Production Engineering Intern | Allegan, MI
May 2014 - Aug 2014
• Improved cleaning rates as a part of a Lean Six Sigma Green Belt project
• Implemented tools to improve engineering communication per company capital goals and objectives
• Organized and standardized various tools and processes using 5S methodology
• Collaborated with and presented to team members, supervisors, and upper management

MSU International Corporate Tour
May 2013
Germany, England, Italy, and Switzerland
• Shadowed seven international corporations over three weeks learning business techniques
• Networked with personnel, developed professional skills, and learned cross-functioning workplace roles
• Experienced the cultural diversity of four different countries

MSU Libraries
Student Library Assistant | East Lansing, MI
Sep 2012 - Present
• Scanned and edited books and magazines to be digitized and loaded into the library database
• Communicated with diverse patrons by phone, and face-to-face, in a friendly, helpful manner
• Arranged audio and video materials in an organized fashion

Compari’s Restaurant
Hostess | Plymouth, MI
Jun 2012 - Aug 2012
• Welcomed customers with a pleasant, accommodating attitude
• Managed problems in a calm and collected way
• Maintained a clean and healthy work environment while keeping consistent flow of customers

MSU Culinary and Hospitality Services
Aug 2011 - Apr 2012
Food Services | East Lansing, MI
• Prepared meals while sustaining a clean and healthy work environment
• Addressed customers in a friendly manner
• Worked with a diverse group of individuals from a variety of cultures

Activities
• Biosystems Engineering Club
  • Vice President
  • ASABE rep, SEC rep
• Women in Engineering Email Buddies Program
• Stryker Challenge

Skills
AutoCAD | Matlab | LabView | Windows & Mac | Microsoft Office
Christopher Ross
637 S. Milford Rd, Highland, MI 48357   (248) 410-2488   rosschr5@msu.edu

Objective
To obtain an internship and/or full time position in the Biosystems Engineering field in order to gain experience in the career.

Education
Michigan State University, East Lansing, MI   August 2011 - Present
B.S. Biosystems Engineering with a concentration in Bioenergy Engineering
Academic Honors:
• GPA: 3.2/4.0
• National Honor Society
Relevant Courses:
• Senior Design (Tetra Tech)
• Sustainable Bioenergy Systems
• Bioenergy Feedstock Production
• Water Resource Sys Analysis
• Heat and Mass Transfer
• Biosensors Med Diagnostics

Milford High School, Highland, MI   August 2007 - June 2011
Academic Honors:
• GPA: 3.8/4.0
• National Honor Society
• Student Council

Work Experience
Van Horn Concrete; Auburn Hills, MI   May 2014 - August 2014
Dispatcher and Batcher
• Managed 100+ deliveries per day
• Monitored, created, and adjusted concrete mix designs
• Dispatched and batched concrete deliveries
• Facilitated customer service

Chipotle; East Lansing, MI   August 2012 - February 2013
Crew Member
• Prepared food and provided friendly customer service

Kroger; Milford, MI   September 2009 - August 2011
Grocery Clerk
• Supervised unloading and sorting of shipments
• Coordinated product stocking

Computer Skills
• Microsoft Word
• Microsoft Excel
• Microsoft PowerPoint
• Mac OSX
• MATLAB
• AutoCAD
• ArcGIS
• BASINs
• WinTR-55

References
Available upon request
OBJECTIVE
Securing a full time engineering position that will extend my academic excellence into industry best practices. In particular I am focused on industries where my background in food and ecosystems and sustainable engineering can add immediate value.

EDUCATION
Michigan State University, East Lansing, MI
Bachelor of Science, Biosystems Engineering, Expected May 2015
  ● Food and Ecosystems Concentration
Cumulative GPA - 3.62 / 4.00

HONORS
  • Michigan State Honors College Member (Fall 2012-Current)
  • Dean's List Honoree (Fall 2011, Spring 2012, Fall 2012, Fall 2013, Spring 2014)
  • Advanced Placement Scholar – Physics B (4), Calculus BC (5, AB subscore 5), Biology (4)

EXPERIENCE
Michigan State University, East Lansing, MI
TEACHING FELLOW FOR DR. TRUMAN SURBROOK
  • Responsible for administering and facilitating lab activity for BE 334-Biosystems Engineering Lab Practices.
  • Fostered safe lab procedures.
  • Strengthened curriculum in collaboration with professors

Michigan State University Academic Orientation Program, East Lansing, MI
STUDENT ASSISTANT
  • Provided input of new responsibilities for my position
  • Ensured a positive first impression for incoming students
  • Enrolled students in their first year classes

Michigan State University, East Lansing, MI
TEACHER’S ASSISTANT FOR DR. JAMES LUCAS
  • Assisted undergraduate students in ACR 202-Environmental Problem Solving.
  • Responsible for class logistics and communication.
  • Produced class activities to stimulate discussions.

SKILLS
  • Proficient in Microsoft Word, MS Excel, and MS Powerpoint.
  • Experience working with MatLab, Microsoft Project, and ArcGIS.
  • Conversant in Spanish and Russian.
  • Strong knowledge of engineering principles
    ○ A particular interest and concentration in the systems approach and sustainable practices and principles
  • Strong Cultural Awareness and worldview gained through Study Abroad Opportunities in Australia (Summer 2013) and Russia (Spring 2009)
  • Extensive Leadership demonstrated through Teaching Assistantships, Orientation work, and a part of STUDENT GOVERNMENT on campus.
Education

- Biosystems Engineering – Michigan State University (Currently Pursuing until spring 2015)
  - GPA 3.4

Employment History

- Waltonwood Assisted Living Complex
  Jun 2012 – Aug 2012
  Dishwasher and server
- The Marquette Independent Living Complex
  Kitchen assistant
  Jan 2013 – Present
- Acorn Community Farm Internship
  Project Design Intern
  May 2014 – August 2014

Qualifications

- Designed and constructed a solar heated shower
- Knowledgeable in construction and plumbing
- Trained in solar electricity circuitry
- Presented visually pleasing displays
- Experienced in using power tools and technical equipment
- Overseen preparation of goods to be fitting for consumer needs
- Managed multiple positions seamlessly throughout the workday
- Skilled in interpersonal relations and conflict resolution

Activities

- Greenpeace Club – Michigan State University
- V-Day Performer and Manager

Skills

- Microsoft Office Proficiency – Word, Excel, PowerPoint
- Green Economic Leadership Training – Solar UV Panel Assessment
Andrew W. Stoffel
12513 Iroquois Rd. • Palos Park, IL 60464
(708) 612-3313 • stoffela@msu.edu

Education

Michigan State University, East Lansing, MI
Bachelor of Sciences, Biosystems Engineering Ecosystems concentration
• 2.92 GPA
• Dean’s List (F’11)
• Relevant course work: Engineering Design and Optimization of Biological Systems, Biosystems Design Techniques

Professional Experience

Michigan State University, East Lansing, MI
Research Assistant II
May 2013–Present
• Member of a team analyzing air emissions from livestock based on specific diets and post excretion strategies
• Work with the computer software LabVIEW® and Power Studio to monitor and control laboratory systems
• Calibrate gas analyzing instruments
• Manage vegetative buffers surrounding swine barns

Michigan State University, East Lansing, MI
Cafeteria Worker
February 2013–September 2013

3 Corners Grill & Tap, Lemont, IL
Bus boy/Bar back
Summer 2011–2012

Hickory Willow Swim Association, Palos Hills, IL
Swim Coach/Lifeguard
September 2009–Summer 2011

Leadership & Extracurricular Activities

Michigan State University Club Water Polo Team, East Lansing, MI
Driver
Fall 2011–Present
• Elected as a Team Captain, leading the team daily to improve individual skill sets and promote team unity
• Member of the starting lineup for 4 years, currently ranked 4th nationally
• 2014 All Big Ten Team
• 2014 All Nationals Team

Fraternity of Alpha Sigma Phi, East Lansing, MI
Brother, Founder
Spring 2012–Present
• Social committee; actively participated in setting up socials with sororities
• Greek week 2014 Chair; organizing and communicating information to interested brothers

Boy Scouts of America, Palos Park, IL
Eagle Scout
2006–2011
• Created and managed Eagle Scout project creating a walkway across a marsh at the Children’s Farm in Palos Park, IL.
• Required service hours: 24 hours every six months

Interests

• Backpacking, fishing and reading
OBJECTIVE

Seeking an entry-level engineering position that will utilize my analytical and problem solving skills in a challenging and fast pace environment.

PROFESSIONAL EXPERIENCE

DTE Electric Company
MISO Market Engineer Co-Op	Ann Arbor, MI
5/2014 – 8/2014

- Conduct economic and generation based analyses to optimize power plant.
- Support Merchant Operations Center by improving efficiency of daily procedures.
- Automate processes with Visual Basics to refine key tasks.
- Facilitate weekly departmental communication meeting.

MSU Anaerobic Digestion Research and Education Center
Research Assistant/Lab Technician	East Lansing, MI
11/2013 – Present

- Perform various tests on samples to determine the feasibility and efficiency of the product for biogas production.
- Run pilot scale anaerobic digesters.

Breslin Student Events Center
Production Staff	East Lansing, MI
5/2013 – 8/2014

- Provide internal security as well as customer service during events at the Breslin Center.

Independence Innovations, LLC
Process Engineering Intern	Rochester, MI
5/2013 – 9/2013

- Research and write professional summaries for associates review
- Present at meetings with interested government agencies, clients and owners

The Nature Conservancy
Government Relation Intern	Lansing, MI

- Represented the Government Relations Department through creating databases and templates adaptable to facilitate variety of documents and activities.

EDUCATION

Michigan State University
Bachelor of Science in Biosystems Engineering
Expected Graduation May 2015
GPA: 3.55

EXTRACURRICULAR

- Director of Social Awareness, Delta Gamma Sorority
- Renewable Energy Systems, MSU Study Abroad. May 2014

AWARDS

- National Science Foundation Grant for Study Abroad May 2014
- Michigan State University Dean’s List 2011-2013
- Merva Scholarship from Biosystems and Agricultural Engineering 2014-2015
- Panhellenic Academic Scholarship 2014-2015
Samantha Walby
walbysam@msu.edu
323 Village Dr. Apt 511, East Lansing, MI 48823
248-837-5416

Objective
To obtain a full time position that applies both the biological and engineering components of my education while offering room for growth and experience

Education
• Bachelor of Science – Biosystems Engineering
• GPA: 3.45/4.00

Work Experience
Unilever – Hammond, IN Summer 2014
Packaging Engineering Intern
• Gathered and analyzed downtime tracking software data to determine the plant’s major losses and evaluated how these losses could be reduced
• Conducted a focused improvement method to address recurring press jams on one of the packing lines in order to reduce unnecessary downtime
• Created and implemented audits and labeling methods to improve the plant’s “5S” system

MSU Food Quality and Safety Lab – East Lansing, MI Jan 2013–May 2014
Undergraduate Research Assistant – Dr. Bradley Marks
• Prepared stock media for use in lab procedures focused on decreasing activity of food-borne pathogens, such as Salmonella and E. Coli
• Maintained a clean work environment, operated autoclave to sterilize equipment and media previously used in experiments, and washed supplies for future use
• Observed and assisted senior members of the lab perform experiments

MSU Department of Biosystems Engineering – East Lansing, MI Aug 2013–Dec 2013
Undergraduate Teaching Fellow
• Provided guidance and mentorship to ~80 students in an introductory level Biosystems Engineering course
• Assisted professor with grading papers and in-class assignments
• Held weekly office hours in order to help students with homework assignments

Sales Associate/Cashier
• Applied product knowledge and selling skills in order to match specific merchandise to the customer’s needs
• Collaborated and effectively communicated with fellow employees to execute tasks, such as organizing incoming shipments and executing customer-convenient floor plans
• Completed transactions in a timely manner to ensure customer satisfaction

Utility Worker
• Demonstrated ability to perform a variety of manual labor tasks
• Gained experience working in a fast paced environment

Technical Skills
• Microsoft Office proficiency: Excel, Word, PowerPoint, Outlook, Project, and Access
• Experience with MATLAB

Activities and Certifications
• MSU Biosystems Engineering Student Club Member
• MSU Women In Engineering Email Buddies Summer 2013
  o Offered advice and encouragement to incoming female freshmen in the College of Engineering
• ServSafe Certification from the National Restaurant Association Education Foundation
• EHS Training: Biosafety, Global Harmonization System, Hazardous Waste, and Lab Security
Allison Anne VanderKolk
1702 Wayne St. Traverse City, MI 49684 • vande580@msu.edu • (231) 645-1658

Objective
Seeking an engaging and challenging engineering full time position beginning fall 2015

Education

Michigan State University (MSU), East Lansing, MI 2010 to Expected Aug. 2015

- B.S. Biosystems Engineering; Honors College; Spanish Minor; GPA = 3.45/4.0
  - Explored the design and performance of energy and food production systems in the context of ecological sustainability
  - Participated in the design and construction of an integrated solar biodigester and wetland system
- Dean’s List (six semesters)
- George E. & Betty L. Merva Endowed Scholarship (2014); W.K. Kellogg Biological Station Scholarship (2013); Howard and Esther McColly Scholarship (2012-13); Hansen Study Abroad Scholarship (2012); Women in Engineering Evening with the Industry Scholarship (Spring 2011); Biosystems Engineering Undergraduate Scholarship (freshman year scholarship)
  - Designed, constructed and analyzed solar water heater project and presented poster and prototype

Stanford University, Palo Alto, CA Summer 2009

- High School Summer College – Earned 9 college credits; GPA = 3.70/4.0

Experience


- Supported projects led by Senior Engineers, acted as an active member of the Project Core Team
- Gained knowledge of relevant surgical techniques, instruments, and various types of implants
- Strengthened understanding of surgical techniques and procedures through various surgical guides, videos and live surgeries of total knee arthroplasty

Breakthrough Science Intern, ConAgra Foods, Omaha, NE May- Aug. 2014

- Participated as contributing member of a team utilizing leading-edge scientific and technical knowledge to spur development of new products, processes, and technologies
- Collaborated with team in the execution of research studies related to a project impacting business
- Conducted laboratory and pilot plant experiments while documenting and maintaining accurate and complete records

Biosystems Engineering Undergraduate Teaching Fellowship, MSU, East Lansing, MI Aug.-Dec. 2013

- Participated as a member of the teaching team for BE 101, course planning, mentoring student project teams, holding office hours, teaching in the course, and grading

Student Assistant, President and Board of Trustees Office, MSU, East Lansing, MI April 2012 to Dec. 2013

- Performed wide variety of office tasks as needed – drafted selected correspondence from MSU President and/or BOT, completed computerization of 1902 BOT meeting minutes, typed, printed, copied, delivered meeting materials, interacted with multiple departments on campus, etc.
- Exposure to executive level correspondence

Lab Assistant, Biosystems Engineering Research Lab, MSU, East Lansing, MI Jan.- April 2013

- Constructed treatment wetlands for water reclamation from anaerobic digestate - developing the use of wetlands to treat bioenergy wastes in the U.S. and Latin America

Volunteer Lab Assistant, Nano-Biosensor Lab, MSU, East Lansing, MI Summer 2012

- Performed aspects of lab research and maintained personal lab records/logs in Dr. E. C. Alocilja’s field-operable nano-biosensor lab
- Plated specimens, evaluated response to experimental conditions, cleaned equipment, etc.

Hostess, Trattoria Stella, Traverse City, MI June 2008 to Sept. 2011

Reservation Specialist, Sunset Water Sports, Traverse City, MI Summer 2010

Memberships/Activities

- Biosystems Engineering Club; Women in Engineering - mentee, general member and mentor for freshman student.
- Alpha Chi Omega – Phase C: Recruitment Chair 2012; Vice President Intellectual Development 2013
- Michigan State University Synchronized Skating Team – July 2010 to March 2013; State, Regional, Midwestern Sectional, & National Competitions. Team Captain 2012-2013; Executive Board: President (April 2012-April 2013); Vice President (Spring 2011-Spring 2012)
Alex Whitlow  
238 South Clemens, Lansing, MI, 48912  
(810)571-1802 Whitlowholt@gmail.com

Objective

- To start a career in a field that will allow me to utilize my experience and education.

Education

- Michigan State University, Biosystems Engineering (GPA 3.51). Date of graduation- 2015  
- Graduated from Stoney Creek High School, Rochester, MI

Experience

**MSU Extension**  
**Bioenergy Education Intern**  
- Developed communication ability through teaching and working with a variety of professionals  
- Managed an intensive and dynamic schedule with little supervision  
- Exercised my initiative by leading a project to make an educational biodiesel poster  
**Biofuels Laboratory**  
**Undergraduate Research**  
- Conducted complicated laboratory tests involving biofuels  
- Assisted in running laboratory scale production of biofuels  
- Broadened my knowledge of bioenergy by aiding several grad students working on various projects  
- Organized and presented a visual chart of research conducted in the lab  
**Costa Rica Study Abroad**  
**Biosystems Engineering Student**  
- Met with engineers and farmers to discuss relevant topics in Biosystems/Agricultural engineering  
- Designed as a team, a flotation device covered with vegetation to treat digester effluent  
- Contributed to a blog of the trip’s events that including technical analyses of engineering material  
**New Zealand Study Abroad**  
- Examined and studied policies of sustainability in New Zealand  
- Analyzed alternative methods of energy production  
- Interacted with the citizens and culture of New Zealand

Achievements

- Successfully passed the Fundamentals of Engineering Exam on May 17th, 2014

Skills

- Experienced with computer software including Microsoft Office, Labview, ArcGIS, BASINS, and MATLAB  
- Proficient in technical and scientific writing  
- Familiar with technical writing in the styles of APA and MLA.  
- Knowledgeable of how to conduct basic lab standard procedure including proper handling of biological and chemical hazards  
- Skilled in using equipment commonly found in a biology lab: autoclave, UV sterilizers, thermal cycler ( for PCR), plastic glove box isolators, homogenizers, and several others.  
- Practiced in running some common laboratory tests that include PCR, total Nitrogen, total Phosphorus, and total Chemical Oxygen demand tests.
Alexis Wloch  
wlochale@msu.edu  

2561 Abbot Road  
East Lansing, MI 48823  

734.365.1694  

Career Objective  
Seeking to obtain a full-time Biosystems Engineering position related to human health or the manufacturing of consumer goods.  

Education  
**Michigan State University, East Lansing, MI**  
Aug. 2011-Present  
*Bachelors of Science, Biosystems Engineering*  
- Concentration in Biomedical Engineering  
- GPA = 3.84/4.00  
- Dean’s List = 6/6 Semesters  

Gabriel Richard High School, Riverview, MI  
Aug. 2007-May 2011  

Work Experience  
**Production Assistant-MSU Dairy Plant**  
East Lansing, MI  
Jan. 2012-Present  
- Monitor the multiple steps in production of dairy products to ensure steady production  
- Maintain the cleanliness of machinery through disassembly and reassembly  
- Verify the safety and progression of dairy products through measurements and quality tests  

**Technical Operations Intern-Perrigo**  
Allegan, MI  
May 2014-Aug. 2014  
- Designed an approved cleaning trial protocol to improve safety and reduce cleaning times  
- Developed and tested a preliminary wash procedure for a new piece of equipment  
- Collaborated with engineers to validate a brand new liquid fill line  
- Completed Lean Sigma Tools Training Courses  
- Compiled equipment information for every production formula into an excel spreadsheet  

**Cashier-Kroger**  
Brownstown, MI  
June 2013-Aug. 2013  
- Provided quality customer service  
- Reduced check-out time for customers  

**Crew Member-McDonalds**  
Brownstown, MI  
May 2012-Aug. 2012  
- Provided quality customer service  
- Performed a variety of crew member tasks at a high volume store  

Activities  
**Biosystems Engineering Club**  
Sept. 2013-Present  
**Women in Engineering Group**  
Aug. 2011-Present  
- Mentored a freshman engineering student through monthly meetings  

Panama Study Abroad Program, Tropical Biodiversity and Conservation  
May 2013-June 2013  
- Adapted to an exotic and unfamiliar environment and culture  

Honors/Awards  
**MSU Honors College**  
Aug. 2011-Present  
**MSU Biosystems Engineering Freshman Scholarship**  
Aug. 2011
Xuhao Dai

daixuhao@msu.edu       (616) 309-7779  5461 Hartfield Ct SE, Ada, MI 49301

Education

Michigan State University (MSU), East Lansing, MI          Dec 2011-Present
B.S. in Biosystems Engineering     Expected Dec 2015
• GPA 3.91 / 4.00
• Dean’s List

Professional Experience

Grader for BE350: Heat and Mass Transfer, MSU, East Lansing, MI      Jan 2015-Present
• Grade students’ assignments including technical calculations and short essay questions
• Assist professor grading students’ exams including short answer questions and calculations
• Enter and manage student grades on Desire 2 Learn course management system

Undergraduate Research Assistant, MSU, East Lansing, MI        May 2014-Present
• Design and conduct Life Cycle Assessment of soybean rotation and tillage practice
• Research and generated multiple strategies to search for necessary information
• Conduct corresponding calculations such as an sensitivity analysis by using Microsoft Excel
• Correlate results with the addition or removal of vehicles on the road

Volunteer Undergraduate Research Assistant, Pyrolysis Reactor Lab, MSU, East Lansing, MI  Jan 2014-Present
• Assisted in lab preparation for pyrolysis experiments
• Facilitated dissembling and cleaning the pyrolysis reactor pieces after each experiment
• Designed experiment to find the potential energy content and other useful elements of different types of wood
• Helped clean and reorganize the lab accessories after the lab reconstruction

Group Member of Senior Design Project: Torrefaction, MSU, East Lansing, MI  Sept 2014-Present
• Manage project plan by using Microsoft Project and update team members on upcoming tasks
• Produced torrefied biomass briquettes by using torrefier, hammer mill, and hydraulic presser
• Design and conduct experiments to test alternatives for improving the hydrophobicity of briquettes
• Conduct economic analysis by using Excel and breakeven analysis

Solar Fruit Dehydrator Project Leader, MSU, East Lansing, MI  Jan 2014-Apr 2014
• Developed a solar fruit dehydrator based on mass transfer principles due to heat and air convection
• Analyzed and modified the original design by adding additional materials and heat conducting elements

RCPD Project, MSU, East Lansing, MI  Jan 2014-Apr 2014
• Used media elements to compile an instruction manual for deaf students in India
• Explained how to use and read a vernier caliper with a step by step Youtube video
• Created a supplemental PowerPoint to help students fully understand the approach of using this tool

Leadership And Outreach

Treasurer, MSU Biosystems Engineering Club  Sept 2014-Present
• Manage club finances including member dues, funding raising and expenses
• Purchase and maintain supplies for meetings, events and other activities
• Analyze the club finances to set appropriate fundraising goals
• Assist Fundraising Co-chairs to develop ideas to raise money for the support of club activities

Fundraising Member, MSU Phi Sigma Pi National Honor’s Fraternity  Jan 2013-Present
• Assist committee leaders in setting up events by taking charge of specific duties such as setting the sights

Skills

• Native language Mandarin and fluent in English
• Microsoft Project, Microsoft Office, Excel
• MatLab
• Google Sketchup
Objective: To obtain work experience in the engineering field that maximizes my education and advances my knowledge of engineering.

Education:

Michigan State University, East Lansing, MI
- College of Engineering • Biosystems Engineering B.S. December 2015
- Lyman Briggs Residential College • Human Biology B.S. December 2015
- College of Human Medicine • Bioethics, Humanities, and Society Specialization
- College of Education • Health Promotion Specialization

Work Experience:

Lifeguard at Westacres Community Beach
- Lifeguard Manager Position May 2010 – August 2012
- Make schedule and lead regular meetings with other lifeguards
- Ensure the safety of patrons at the beach
- Certified in First Aid and CPR

Night Receptionist at Michigan State University
- Regularly monitor security in dormitories throughout the night
- Screening of all individuals entering the dormitories after hours
- Mentor incoming employees and train them of their duties

Service Experience
- Volunteer at Henry Ford Hospital West Bloomfield
  - Gastroenterology Department (50 Hours) May-August 2011
    - Assist nurses with paperwork and cleaning duties
    - Interact with patients after surgery to keep them company
  - Patient Escort (30 Hours) January-May 2011
    - Escort patients around Hospital after surgery
- Emergency Department (60 Hours) September 2011 - December 2012
  - Ensure that patients and their families are having a comfortable visit
  - Aid nurses by performing tasks they are too busy to accomplish
- Active member and participant in neighborhood community service
  - Volunteer at many neighborhood events 2005 - Present
  - Volunteer at community service days 2005 - Present

Activities and Memberships
- Member of Biosystems Engineering Club 2013 - Present
- Member of Lyman Briggs Residential College 2009 - 2013
- Member of Michigan State Pre-Physician Association 2010 – 2013
Brody Lawrence  
372 Sturm Road, Pigeon, MI 48755 | (989)-550-7722 | lawre260@msu.edu

Objective
To obtain an internship for the summer of 2015 to gain first-hand knowledge and experience in an engineering environment working alongside other engineers.

Education
Michigan State University  
Bachelor of Science, Biosystems Engineering  
College of Engineering, College of Natural Science  
East Lansing, MI  
GPA 3.57 / 4.0  
Expected: Dec. 2015

Experience
Michigan State University  
USDA-ARS Postharvest Lab  
Lab Research Assistant  
East Lansing, MI  
May 2014-Present

- Generate design concepts and test validity in the development of an automated apple sorter
- Provide technical assistance to project researchers in the form of running experiments and data collection
- Communicate design alternatives via 3D Google SketchUp illustrations

J&L Painting (Seasonal)  
Project Supervisor  
Pigeon, MI  
2008-2013

- Led and motivated painting and repair crews on a daily basis to maximize utilization of labor
- Accounted for material usage, hours labored, and customer accounts
- Vendor sourced raw materials to optimize quality while reducing capital cost
- Scheduled projects with ability to drive and deliver results

Customer Relations
- Estimated projects including on-site visits to potential customers
- Maintained customer satisfaction through post project follow-ups guaranteeing quality work

Crew Member
- Stained, painted, sanded, and dry wall application
- Inspired team to be productive and maintain customer satisfaction

MSU Resource Center for Persons with Disabilities  
Team member  
East Lansing, MI  
Fall 2011

- Conceptualized ideas to integrate new techniques for the education of the visually impaired
- Determined best solution that was implemented at the Center

Activities, Honors, and Awards

- Dean’s List  
  Spring 2012, Fall 2012, Spring 2013
- National Society of Collegiate Scholars  
  Fall 2012
- Gordon W. and Loyse B. Hueschen Scholarship (4 years)  
  Spring 2011
- Team Captain: Football, Basketball, Baseball  
  2010-2011

Computer Skills
- Highly advanced in Microsoft Office; Word, Excel, and PowerPoint
- Knowledgeable in the engineering software MATLAB
- Effective in Logical spread sheeting to properly display data
- Skillful in 3D modeling in the computer software Google SketchUp

References available upon request
Gina M. Masell  
621 West Grand River Avenue, East Lansing, MI 48823  
248.200.6077  
masellgi@msu.edu

**Objective**

To obtain a political science related internship that will further my career goal in intellectual property law as well as further develop my professional skillset.

**Education**

**Michigan State University: East Lansing, MI**  
Aug. 2011-Present  
- College of Engineering  
- Bachelor of Science Biosystems Engineering  
- College of Social Science  
- Bachelor of Arts Political Science Pre-Law  
- GPA 3.44/4.00

**Study Abroad:** Music, Art, and Language, Bregenz, Austria  
- Rapidly adjusted to an entirely different cultural environment  
- Arranged two months abroad including travel and activities

**Experience**

**Internship Political Science:** The Executive Office of the Governor, Lansing, MI  
Sep. 2014- Present  
- Accommodated for a rapidly changing work environment  
- Researched legislative affairs to promote the Governor’s agenda  
- Attended committee meetings, press conferences, and bill signings

**Teaching Fellowship:** Introduction to Biosystems Engineering (BE 101) Class, East Lansing, MI  
Sep 2014-Present  
- Encouraged students to explore their potentials in the Biosystems Engineering degree program  
- Analyzed students coursework and guided them to the proper understanding of the material  
- Initiated contact with students to ensure their success in the program

**Internship Engineering:** Garden Fresh Gourmet, Ferndale, MI  
May 2013-Jul. 2013  
- Formulated a strategic business plan for a pseudo company for which I was able to manage and control its finances and processes  
- Improved their quality control processes in order to increase production efficiency  
- Monitored and evaluated their quality control and business management practices

**Inshop worker:** Jimmy John’s Gourmet Sandwiches, East Lansing, MI  
- 20-25 hours per week while being a full time student  
- Promoted to cashier and store closer

**Cashier:** Michigan State University Services, East Lansing, MI  
- Promoted to Level 2 Cashier from a general kitchen worker  
- 20-25 hours per week while being a full time student

**Cashier and Birthday Coordinator:** Chuck E. Cheese’s, Rochester, MI  
- Ranked a top performing employee with regards to upselling products and developing customer relations  
- Named employee of the month two times  
- Received many outstanding employee recognition awards for continually receiving positive customer feedback on customer satisfaction surveys  
- Managed employee scheduling and training for the scheduled birthday parties and employees  
- Promoted several times to trainer and coordinator as well as cross-trained in every position in the store

**Activities**

- **Women in Engineering (WIE) Mentor Connect Program**  
  Aug. 2013-Present
- **Biosystems Engineering (BAE) Club**  
  Aug. 2013-Present
- **Day at State Program**  
  Aug. 2013-Present
- **Michigan State Student Food Bank Volunteer**  
  Feb. 2013-May 2013
- **Michigan State University Varsity Rowing**  
  Jan. 2012-May 2012
Objective
To obtain a full-time position in an engineering environment in the biomedical industry as well as gain knowledge and experience to improve innovative and creative skills

Education
Bachelor of Science, Biosystems Engineering Expected Dec 2015
Michigan State University | East Lansing, MI
• Biomedical concentration
• 3.00/4.00 GPA

Work Experience
Research Assistant Sept 2011 – present
MSU Meat Processing and Safety Laboratory | East Lansing, MI
• Conduct research for food industry
• Ensure product safety and profitability
• Evaluate storage and handling techniques to reduce spoilage and increase shelf longevity
• Teach new lab assistants biohazard safety measures and precautions
• Train incoming underclassmen to work efficiently in the lab
• Assist various graduate students with ongoing government-funded projects
• Help lab supervisor with tasks

Service Clerk Oct 2010 – June 2011
VG’s Food Mart | Waterford, MI
• Provided customer service
• Interacted with customers on a daily basis

Summer Intern June 2010 – Aug 2010
Fausone Bohn, LLP | Northville, MI
• Organized work room and file cabinets
• Created PowerPoints for attorneys
• Updated volumes of legal material

Activities/Clubs
• Biosystems Engineering Club Sept 2011 – present
  o Fundraising Co-Chair March 2014 – present
  o Mentor for underclassmen Sept 2014 – present
• Women in Engineering Sept 2012 – present
  o Connect Mentor for freshmen July 2013 – present
• Intramural flag football Sept 2011 – 2012

Certifications
• Certified and trained for Biosafety Level 2 laboratories
• Certified in chemical safety
• Certified in biological safety
Benjamin Bailey
1-616-402-7557 / bailey.ben5@gmail.com
Campus: 988 S. Brody St., Rm. B307, East Lansing, MI, 48825
Permanent: 10584 Lakeshore Dr., West Olive, MI, 49460

Objective; To develop new, efficient, and green manufacturing systems using my knowledge of engineering

Education
Michigan State University
- Major; Biosystems Engineering; Specialization: Food, Minor; Natural Resource and Sustainability Studies
  - 3.6 G.P.A., Honors College, RISE Program, Class of 2016

Experience
Biosystems Engineering Undergraduate Teaching Fellow
- Mentored intro level Biosystems students

Michigan State University Extension Internship
- Consulted clients to fix various problems
- Wrote and published multiple online news articles/papers
- Honed presentation skills at various events

Resident Assistant; East Lansing, Michigan
- Creates floor community / Serves as a mentor for undergraduate students
- Leads and creates programming and educational systems for residents to follow
- Supervises and advises Bailey Hall Government

RISE Program; East Lansing, Michigan
- Member of the Rise Student Action Committee
  - Student Leadership Board
  - Manages the affairs of RISE
- Aids in RISE program grant and research development

Grant Research; East Lansing, Michigan
- Researched and developed data as part of a nationally funded grant
- Produced and published a peer reviewed literature review

Undergraduate Research; East Lansing, Michigan
- Developed data on the use of antibiotics in livestock compared to human health
- Publically presented data and finding at research festivals
- Won research award in environmental policy division at UURAF

Summer Maintenance Crew; Holland, Michigan
- Acquired mechanical skills (construction)
- Managed crew’s time and skill sets
- Directed and built a close knit and functional team

Engineering; East Lansing, Michigan
- Assisted blind students in the understanding of physics and presented at Design Day
- Designed new, groundbreaking tools to accompany already existing physics textbooks

Publications

Interests
- Member of MSU Men’s Glee Club
- Community Service

References Available Upon Request
Objective
To obtain an internship or co-op in the Biosystems Engineering field to help broaden my experiences outside the classroom.

Education
- Michigan State University, East Lansing, MI 2012-May 2016 (expected)
  - Bachelor of Science Biosystems Engineering, GPA 2.9/4.0
- Grosse Ile High School, Grosse Ile, MI 2008-May 2012
  - Highest Honors, GPA 3.9/4.0

Experience
- Christie’s Wallpaper and Painting, Grosse Ile, MI May-June 2014
  - Implement wallpaper removal processes
  - Aid in painting homes
  - Preform any task Christie needed for painting and wallpaper
- Nanny, Grosse Ile, MI May-August 2014
  - Arrange daily schedule for a 7 and 3 year old girls
  - Address any disagreements between the girls
  - Administer a house rule and cleaning
- Michigan State University Residential and Housing Services, East Lansing, MI 2013-2014
  - Served food to costumers
  - Assisted cooks in their food preparations
  - Operated my own food station
- Babysitting and Tutoring, Grosse Ile, MI 2011-2012
  - Explained difficult homework problems
  - Devised daily schedule for homework and play time
  - Informed parents on student progress

Honors/Awards
- Scholarships
  - High School Faculty Scholarship 2012
  - Grosse Ile Rowing Scholarship 2012
- National Honor Society Member 2011-2012

Activities
- Society of Women in Engineering 2013-Present
  - National Conference, Baltimore, MD 2013
- Michigan State Women’s Rowing Team 2012-2013
  - 3rd place at Big Ten Championships 2013
- MSU Putting Athletes and Community Together (PACT) program volunteer 2012-2013
- High School Rowing, Grosse Ile, MI 2009-2012
  - Most Valuable Player 2011, 2012
  - Coaches Award 2011, 2012
  - National Scholar Athlete 2012
  - Most Improved Player 2009
- High School Cross Country, Grosse Ile, MI 2010-2012
  - National Scholar Athlete 2012
  - Most Improved Player 2010
- People to People Student Ambassador, France, Austria, Switzerland, and Italy 2008
Joshua W. Boucher  
134 Gunson Street, East Lansing, Michigan 48823 • 248.836.7019 • bouche35@msu.edu  

OBJECTIVE  
To obtain an internship within biosystems engineering that allows an opportunity to further refine my skills and gain practical experience in a professional setting.

EDUCATION  
Michigan State University, East Lansing, MI  
Bachelor of Science in Biosystems Engineering  
Concentration: Biomedical Engineering  
GPA: 3.2/4.0  

WORK EXPERIENCE  
The Preserve Association, Lake Orion, MI  
Manager  
April 2013 – August 2014  
- Provided leadership and served as single point of contact for customer assistance.  
- Achieved 100% compliance for water testing in accordance to State and Township requirements.  
- Managed employee scheduling, mediated employee conflicts, and resolved resident concerns.  
- Coordinated community events.  

Pool Attendant  
July 2007 – August 2014  
- Supervised pool facility, occupants, and events.  
- Maintained facility in compliance with State of Michigan requirements.

Bass Pro Shops, Auburn Hills, MI  
Customer Service Associate  
October 2010 – December 2013  
- Accountable for customer service within various departments.  
- Managed floor, stock, and product display integrity.  
- Delivered outstanding customer service to instill repurchase intent and brand loyalty.  
- Received numerous Quality and Recognition awards.

ADDITIONAL EXPERIENCE  
Operation Smile, East Lansing, MI  
2012 – present  
- Build funding and awareness to benefit repair of cleft lip/palate differences.  

Mission of Mercy, Saginaw, MI  
2013 – present  
- Assist in providing free dental care to those in need.  

Children's Craniofacial Association, Dallas, TX  
2010 – present  
- Family Network Mentor and establishing MSU Ambassadorship.  

MSU Bass Fishing Team, East Lansing, MI  
2012 – present  
- Team member and elected Treasurer.  

MSU Biosystems Engineering Club, East Lansing, MI  
2013 – present  

SKILLS  
Computer: 3D design and simulation software and CATIA.  
Microsoft Visual basic software, MATLAB.  
Extensive Microsoft Office experience.  

Awards: Michigan State University Dean’s List recognition.  
Michigan Competitive Scholarship recipient.
Andrew Brown  
35767 Congress Road  
Farmington Hills, MI 48335  
Phone: 248-794-0832   Email: Brown358@msu.edu

Objective
To work in a position that will utilize my skills, dedication, and knowledge. Work ethic is one of my most defining traits, allowing me to work well in many situations. I desire to learn from new experiences that will come from an engineering position.

Education
Michigan State University College of Engineering       May 2016  
Bachelor of Science, Biosystems Engineering  
Minor in Computer Science  
• Honors College  
• 3.62/4.0 GPA

Experience
Undergraduate Research, Dr. Reinhold - East Lansing, MI October 2013- April 2014  
• Researched the contaminant uptake of ornamental plants for the cleaning of biological runoff  
• Collected and analyzed water samples treated through soil samples containing selected plants

Gio’s Gardening – Farmington Hills, MI June 2013- Present  
• Helped manage multiple jobs concurrently spread throughout 5 towns  
• Led small teams to accurately and efficiently complete landscaping jobs  
• Communicated directly with customers to ensure the quality of jobs

Undergraduate Research, Dr. Saffron- East Lansing, MI September 2012- May 2013  
• Collaborated with a graduate student on research regarding biofuel production through pyrolysis processes  
• Learned the use of lab equipment and proper lab techniques

Plato’s Coney Island – Farmington Hills, MI June 2011- August 2012  
• Worked as both a dishwasher and assistant cook  
• Developed time and stress management skills  
• Balanced working, a heavy school workload, and high school sports

Activities
MSU Rowing Team September 2012- May 2014  
• Enriched self-discipline with 5:45 AM practices  
• 18+ hours of practice a week (6 days a week)

Beta Theta Pi Fraternity – Community Service Chair September 2013 – Present  
• Managed and recorded community service hours for over 50 people  
• Coordinated service opportunities between the fraternity members and service organizations in the community

Skills
Proficient with LabView, Microsoft Word, and Microsoft Excel (Certified, 2010), Python
Sarah Buchholz
517-763-3446 / buchho26@msu.edu
Campus: 256 West Shaw Hall, 591 North Shaw Ln, East Lansing, MI 48825
Permanent: 1763 Pine Creek Cir, Haslett, MI 48840

Objective
To apply for specific Senior Design project topics

Education
Michigan State University; East Lansing, MI  
BIOSYSTEMS ENGINEERING/PRE-VETERINARY MEDICINE, CLASS OF 2016  
• G.P.A. 3.88/4.00  
• Study Abroad in Europe; Summer 2014

Experience
Michigan State University; East Lansing, MI  
RESEHR ASSISTANT, FOOD SAFETY  
• Learning new skills quickly  
• Being responsible for organizing projects, people, and supplies  
• Performing a job carefully to avoid hazards or contaminations  
• Examining scientific literature in order to devise new experiments  
• Analyzing experimental data

Capital Area Humane Society; Lansing, MI, and East Lansing Veterinary Clinic; East Lansing, MI  
CLINIC VOLUNTEER/OBSERVER  
• Being alert to the needs of the animals while the vet is in surgery  
• Being very careful when performing delicate tasks such as giving vaccines

Pet-Sitting; Lansing Area, MI  
PET/HOUSE SITTER  
• Being on time to feed/give medicine to the animals such as dogs, cats, guinea pigs, and parakeets  
• Learning about each individual's needs  
• Balancing many tasks and even many sitting jobs at the same time

Skills
• Excellent with computers:  
  ◦ Ability to use Microsoft Word, Excel, and PowerPoint  
  ◦ Ability to use Adobe Photoshop Elements and similar art programs  
  ◦ Ability to program in Matlab  
  ◦ Basic knowledge of HTML  
• Extensive knowledge of domestic animals and their health needs  
• Experience in giving medicine (oral and injections) to domestic animals  
• Ability to speak, read, write, and understand the French Language  
• Ability to sketch and draw creatively  
• Very skilled in playing the flute  
• Advanced leadership skills

Activities
• MSU Tau Beta Pi; Treasurer; April 2014-Present  
• MSU Biosystems Engineering Club; Media Chair; July 2014-Present  
• MSU Society of Women Engineers; Member; October 2012-Present
Larry James Buckner  
3945 Hunsaker Street Apt Q1, East Lansing, MI 48823 • (313)-434-3000 • buckne32@msu.edu

Education

Michigan State University – Lansing, MI  
• Bachelor of Science Biosystems Engineering  
  o Biomedical Concentration  
  o GPA 3.3/4.0  
Sept, 2010 – Present  
Expected May 2016

Wylie E. Groves High School – Birmingham, MI  
• Magna Cum Laude  
• GPA: 3.7/4.0  
Aug. 2006 – June 2010

Work Experience

Gas Customer Deliverability Intern -Consumers Energy - Lansing, MI  
• Formulated a step by step method to effectively map GPS in underground pipes  
• Designed a guide that directed employees and employer’s actions in emergency situations  
• Established locations on blueprints that directed construction management where to gather survey data  
• Analyzed and organized data from various company projects using GPS programs  
May 2014-Aug. 2014

Corrosion Department Intern -Consumers Energy- Lansing, MI  
• Designed a program that could detect and predict the amount of corrosion on pipe systems  
• Traveled to project sites and performed analysis on pipe systems  
• Facilitated project meetings to discuss project updates and concerns with management  
• Generated an effective method to store past and future project data  
May 2013-Aug. 2013

Tutor – Cornerstone Residential Experience (CoRe) – Lansing, MI  
• Aided engineering students in grasping the concepts of calculus and physics  
• Provided students with study skills that gave them confidence to independently problem solve  
• Brainstormed with other tutors to create methods that appealed to student’s various learning styles  
• Illustrated personal techniques that provided students with a more efficient way to arrive at a solution  
Fall 2010 – Fall 2012

Peer Leader – Cornerstone Residential Experience (CoRe) – Lansing, MI  
• Communicated information to students about various academic resources  
• Ensured that first and second year students were provided the necessary resources and academic aid to succeed in college  
• Brainstormed, designed, and implemented programs for students with a focus on providing an in-depth analysis of various engineering fields  
• Collaborated with Engineering Peer Leaders to bring in various engineering employers to take part in our programs, providing information regarding careers and different opportunities  

Activities

• Biomedical Engineering Society  
  Aug.2014 - Present
• Biosystems Engineering Club  
  Aug.2014 - Present
• MSU Judo Club  
  Aug.2014 - Present
• Minority Association of Pre-Health Students  
  Aug.2013 - May 2014
• MSU Solar Car Team Designer  
  Aug 2011 - May 2014
• MSU Taekwondo Team  
  Aug 2013 - May 2014
• Wilson Hall Government President  
  Aug 2011 - May 2012
• Wilson Hall Government Vice President  
  Aug 2010 - May 2011
• Wilson Hall Black Caucus Liaison  
  Aug.2010 - May2012
Objective: Looking for a summer internship/Co-op in Biosystems Engineering

Education: Bachelor of Science in Biosystems Engineering (Biomedical Concentration)  Fall 2011- Present
Michigan State University East Lansing, MI
Expected Date of Graduation  Spring 2016
GPA: 3.03/4.0

Experience: Caddy Master’s Assistant  5/2006-Present
Knollwood Country Club  West Bloomfield, MI
• Accommodated golfers in the pro shop
• Set up tee times for golfers
• Champion Caddy

Brody Cafeteria-Michigan State University East Lansing, MI
• Assisted in the kitchen
• Worked at various stations preparing food

Skills: Classroom experience with the following engineering software packages:
• Autodesk Architectural Drawing & Design
• NX software
• MatLab

Activities: Member of Biosystems Engineering Club (MSU)  2013
Career Fair Ambassador for Engineering Expo  2012
Member of American Society of Mechanical Engineers (MSU)  2012
Selected to participate in LINKS, a freshman mentoring program  2009-2011

Awards: Dean’s List  Fall 2013
Won 3rd place in a state wide engineering design competition (invented a device for a handicapped person)  2010
Paige Crosset  
1827 High Hollow Drive, Ann Arbor, MI 48103 • (734)645-8492 • Crossetp@msu.edu

Education  
Michigan State University; East Lansing, MI  
Estimated Graduation: May 2016

Ann Arbor Pioneer High School; Ann Arbor, MI  
August 2007-June 2011

Biosystems Engineering  
• GPA: 3.97/4.00  
• Dean’s list: 5/5 semesters

High School Diploma  
• GPA: 3.95/4.00  
• Honor roll: 8/8 semesters

Experience  
Michigan State University: Anaerobic Digestion Research and Education Center, Lansing, MI  
January 2014-Present
Lab Technician  
• Run lab procedures to determine energy content of anaerobic digestion material  
  • COD, TSS, TS, Ammonia, Ammonium, Nitrogen, Phosphorous  
• Run pilot anaerobic digestion systems to determine gas producing potential

Unilever (Home and Personal Care); Raeford, NC  
May 2014-August 2014
Supply Chain/Operations Intern  
• Completed Value Stream Mapping for compounding process  
• Lead cross functional team focused improvement to fix system error  
• Managed rework for site and updated process for sustainability

Michigan State University: Biosystems Engineering Department; East Lansing, MI  
January 2014-May 2014
Teaching Fellow for BE 230- Engineering Analysis of Biological Systems  
• Responsible for grading homework assignments and helping students understand class material

Unilever (Home and Personal Care); Raeford, NC  
July 2013-December 2013
Safety Health and Environment Co-op  
• Managed startup of new wastewater facility and updated/created standard operating procedures  
• Completed monthly environmental performance (EPR) and water (IUP) reports  
• Trained new employees in hazard communication and storm water management

Michigan State University: Residence Education and Housing Services; East Lansing, MI  
February 2012-May 2013
Resident Assistant  
• Supervised a floor of 50 undergraduates to ensure a safe living environment  
• Responsible for planning and executing community events

Plum Market; Ann Arbor, MI  
February 2009- December 2013
Front End Associate/Produce Team Member  
• Responsible for setting displays, rotating stock, assisting customers and training new employees

Skills  
• MATLAB, Microsoft Word, Outlook and Excel trained  
• Global Harmonized System trained- Hazard Communication trained  
• Basic Spanish speaking skills: 4 years of high school classes, 1 year of 2nd level college classes

Activities  
• Phi Sigma Rho (women’s engineering sorority): Chartering Member, Executive Board Member; January 2012-Present  
• Biosystems Engineering Club: Member; Fall 2012-Present  
• Michigan State University Intercollegiate Bowling Team: Member, Coordinator; September 2011-March 2013  
• Ann Arbor Pioneer High School Orchestra: Member, President, Section Leader; August 2007-June 2011  
• Ann Arbor Pioneer High School Bowling Team: Member, Team Captain; August 2007-June 2011

Awards  
• A.W. Farrall Scholarship most prestigious within the BAE department for academic achievement and leadership; Spring 2014  
• The Women in Engineering Program Honorary Scholarship Award for academic excellence and leadership; February 2014  
• Howard and Ester McColly Scholarship for academic achievement and leadership; Spring 2013  
• Frederic Chopin Piano Award for Outstanding Leadership; May 2011  
• Sportsmanship award and Captain for high school bowling team; March 2008, 2009, 2010, 2011
Robert Munro

Education

**Michigan State University** – East Lansing, MI  September 2012 – Present  
*Bachelor of Science in Biosystems Engineering*  Expected Graduation May 2016  
- 3.8/4.0 GPA

Work Experience

**Medallion Instrumentation Systems** – Spring Lake, MI  April 2014 – August 2014  
*Operations Intern*  
- Collaborated with another intern to reprogram the Purchasing Database for ease and accuracy of use  
- Initiated an automatic process to purchase high volume items for the plant  
- Aided engineering department with production quality and line research

**MSU Engineering** – East Lansing, MI  August 2013 – December 2013  
*Engineering Mentor*  
- Provided technical support and guidance to freshman students in the College of Engineering  
- Instructed students in proper tool operation and safety

**Spring Lake Country Club** – Spring Lake, MI  May 2013 – August 2013  
*Assistant Aquatic Director*  
- Developed and utilized problem-solving skills to repair and replace pool equipment  
- Educated children ages 5-15 in swimming stroke technique and training  
- Managed employee duties and responsibilities

**Michigan’s Adventure** – Whitehall, MI  May 2012 – August 2012  
*Water Park Maintenance*  
- Gained technical experience maintaining proper chemical levels in pools  
- Performed small repairs on water system  
- Maintained pool equipment and provided customer service for guests

*Soccer Referee*  
- Communicated rules to all players in a precise and clear manner  
- Lead players and coaches by having the final word on all calls

Campus Involvement

**Triathlon Club** – East Lansing MI  November 2012 – Present  
*Swimming Coordinator*  
- Lead clinics that focus on technique and strategy for the swimming discipline  
- Write workouts and advise teammates on training plans  
*Events Coordinator*  
- Schedule, plan, and manage team events

Skills

- Microsoft Word  
- Excel  
- Access  
- C Programming language  
- MATLAB

Honors and Awards

- **Dean’s List at Michigan State University**  
- **United States Steel Scholarship**  
- **Michigan State University Transfer Scholarship**  
- **Michigan State University Engineering Fee Scholarship**
Jacqueline Thelen
12870 Near Lane, Caledonia, MI 49316
(616) 322-5590 • jackiethelen44@gmail.com

Education
Michigan State University • East Lansing, MI
Graduating Spring 2016
Bachelor of Science Degree in Biosystems Engineering • Honors College • Cumulative GPA of 4.0

Work Experience
Michigan State University Undergraduate Research
September 2013 – present
- Nominated by the Honors College for a Professorial Assistantship in Agricultural and Biosystems Engineering
- Lead a project analyzing applications and economic feasibility of iron oxide nano-media in wastewater treatment plants
- Facilitated communication between wastewater facilities and research team to expedite sample collection and testing
- Collected and organized data in a comprehensive spreadsheet and reported results, data analysis, and experimental changes in monthly updates to clients and other researchers
- Modeled the phosphorus adsorption capacity for nano-media technology: designed procedures, conducted experiments, and presented results at the 2014 University Undergraduate Research and Arts Forum
- Assisted research team with maintenance and data collection using EPA-approved methods and safety protocols

T.J. Maxx • Grand Rapids, MI
June 2012 – August 2013
- Managed organization and aesthetic quality of department while promoting customer service and loss prevention
- Restructured and organized departments as the store moved to a new location in March 2013
- Constructed new displays for featured merchandise at the new location to enhance marketability and ensure that the new layout abided by corporate guidelines
- Trained new employees in sales floor maintenance, merchandise exhibition, loss prevention, and customer service

Honors
- National Merit Scholarship Finalist
- Michigan State University Von Ehr Scholar
- Michigan State University Special Merit Award winner
- Advanced Placement Scholar with Distinction award winner

Activities
- National Member of the Society of Women Engineers – elected Fundraising Chair for the 2014-2015 school year, prepared outlines for potential fundraising projects and the addition of a sub-committee to involve underclassmen in club activities, volunteered through the East Lansing Impression 5 Science Center and the Ronald McDonald House
- Active Member of MSU’s Biosystems Engineering Club – elected Student Engineering Council Representative to help connect Biosystems Engineering students with other organizations and activities within the College of Engineering
- Honors College First Year Counsel member – enhanced teamwork and leadership skills, aided East Lansing’s Environmental Stewardship Program by eradicating invasive plant species at Harrison Meadows Park
- Assisted participating companies as a Career Ambassador at the 2013 Career Gallery
- Exercised problem solving skills in the SpartaNature Research Seminar at Kellogg Biological Station
- Practiced critical thinking and engineering design skills in MSU’s Leadership Advantage Program
Christopher J. Walker
502 W. Vermontville Hwy.
Charlotte, MI 48813
Home: (517) 543-3649    Cell: (517) 667-9425
walke521@msu.edu

OBJECTIVE:
To obtain a part-time job or internship involving the areas of Agriculture, Engineering, and/or Biology

EDUCATION: Michigan State University  East Lansing, MI 48824
Dual B.S. in Biosystems Engineering & Animal Science, expected May 2016
Cumulative GPA: 3.059

RELEVANT EXPERIENCE & OTHER EXPERIENCE:
DuPont Pioneer, Ithaca, MI.  May 2014 to August 2014
Research Maize Intern.
<> Assist researchers with various projects such as seed fill, organization of plot locations, recording and updating safety protocols, and data collection of traits important to research
<> Led and was in charge of part-time employees during the pollinating season to ensure good pollinations were made.
<> Aided in the research of disease mold (Gibberella zeae)
<> Support in monitoring research plots for stand establishment and assisted with setup and maintenance of drip irrigation system.

Walker Farms, Charlotte, MI.
Co-Owner and Operator.  January 2004 to Present
<> Assist with everyday needs of the farm from doing daily chores to maintaining buildings and equipment
<> Own and oversee a farrow-to-finish 10-sow swine herd by managing and making important decisions regarding the overall pork production from farrow piglets at birth and utilizing problem solving skills to adjusting feed rations to fit the needs of pigs that are going to the butcher
<> Manager of a 120 head Angus Beef cow/calf operation by assisting at birth, separating calves, processing cattle by giving injections, worming, and checking for pregnancy, as well as, keeping up to date records through Microsoft Excel to keep track of sales and each individual animal
<> Use large machinery such as tractors, seed drills, corn planters, discs, plows, etc. to till the land and plant crops

Spartan Motors, Inc. Charlotte, MI.
<> Work with Project Engineers to help write ECR and ECN change printouts, mark-up BOMs, detail various different types of parts and assemblies: brake systems, engine hoses, frame rails, etc., and assist with customer needs on product design and product efficiency

Michigan State University. East Lansing, MI.
Member of the 2013 MSU Meat Judging Team.  January 2013 to Present
<> Attend practices and participate in competitions held in various locations pertaining to judging of the carcasses of Beef, Pork, and Lamb.
<> Use writing skills to construct a short essay of “reasons” in which describes in detail a particular group of carcasses
<> Easily yield and quality grade beef carcasses to assess value to the carcass

SKILLS:
Engineering/Architectural Program Experience:
<> AutoCAD <> Soft Plan <> Solid Edge <> Inventor <> Solid Works <> ARAS Innovator <> MatLab
Computer Graphics and Design:
<> Photoshop Elements <> CS4 <> CS5

ACTIVITIES:
Michigan State University Block and Bridle Club, Member
4-H Club, Leader  August 2013 to Present
4-H Club, Member  September 2013 to Present
January 2005 to July 2012

HONORS AND AWARDS:
<> Silvestri Spartan Engineering Scholarship <> MSU Biosystems Engineering Hansen Scholarship

References available upon request
Objective

To gain experience in the Biosystems Engineering field through a summer internship or part time job.

Education

Bachelor of Science, Biosystems Engineering. Michigan State University | East Lansing, MI

- Concentration in Ecosystems Engineering
- 3.55 GPA

Experience

Water Sampling Research
Department of Civil and Environmental Engineering, MSU | Ottawa County, MI

- Assisted in collecting data to create a chloride dispersion model
- Assembled ground water samples to find extent of chloride contamination

Irrigation Installation Technician
U.P. Irrigation | Marquette, MI

- Managed, diagnosed, and implemented irrigation systems for an array of residential and commercial landscapes
- Aided in the preservation of existing irrigation systems
- Generated solutions to increase the efficiency of water usage

Athletic Facilities Maintenance
Michigan State University | East Lansing, MI

- Worked in a team setting to carry out assigned tasks
- Alleviated issues regarding athletic facility preservation and upkeep

Additional Experience

- Bay Cliff Health Camp Counselor | Big Bay, MI; Summer 2012
- Volunteer High School Coach - Track and Field Team | Marquette, MI; Spring 2012
- Volunteer High School Coach - Cross Country Team | Marquette, MI; Summer 2012
- MSU Day at State Participant | Marquette, MI; Winter 2013
- 2014 MSU Engineering Expo Student Ambassador | East Lansing, MI; Winter 2014

Honors

- MSU Track and Cross Country athlete
- Member of the Academic All-Big Ten Track and Cross Country Teams
- Dean’s List
Expected 2017 Graduates
Peter Drogosh

Current
234 Wilson Rd., Room 324
East Lansing, MI 48825
269-447-4686
drogoshp@msu.edu

Permanent
8961 Marsh Creek Circle
Galesburg, MI 49053

Objective
To obtain an internship, part- or full-time job during the summer of 2015 or 2016 in the Engineering field so that I may apply and expand my educational experience.

Education
Michigan State University – East Lansing, MI
- Biosystems Engineering – Bioenergy; B.S.
  - GPA: 3.67/4.0
- Freshman Seminar Abroad – New Zealand: Environmental Values, Issues, and Practices

Gull Lake High School – Richland, MI
- GPA: 4.042/4.0
- Advanced Placement courses: Chemistry, Biology

Experience
Research Assistant, The University of Chicago – MSU Kellogg Biological Station, Hickory Corners, MI
- Summer 2014
  - Followed professional laboratory procedures
  - Collected and organized large amounts of data
  - Worked in the field and lab in small groups to assist research

Cashier, Harding’s Friendly Market – Richland, MI
- May 2014 – present
  - Managed cash registers and transactions
  - Met customers’ needs and requests
  - Utilized and improved problem-solving skills

Skills
- Excellent organizational skills, punctual, works well independently or in groups
- Windows 8 and previous Microsoft operating systems
- Microsoft Office Word, Power Point, and Excel 2013 and previous editions
- Basic knowledge of MATLAB software

Honors and Activities
- Michigan State University Dean’s List
- Parker Hannifin Engineering Scholarship
- Volunteer Junior Counselor at MSU Kellogg Bird Sanctuary children’s science camp
- National Honors Society
- Distinguished Academic Scholar – Gull Lake High School
- John Philip Sousa Award
Breanna Earls
1128 Runaway Bay Drive APT 3A Lansing, MI 48917
517-899-8103
earlsbre@msu.edu

Objective
Seeking an internship position for the summer of 2015 within the field of Engineering

Education
Michigan State University
Junior in Biosystems Engineering
GPA: 3.0
May 2017

Experience
Gas Construction Intern, Consumers Energy
May 2014-Dec 2014
- Designed and implemented solutions for several projects involving resource optimization of company assets
- Increased productivity by ensuring that all gas construction employees received the equipment necessary to be successful on the job site
- Identified past issues as well as current restraints to create solutions used to revitalize the onboarding process for new employees
- Interacted with CEOs of outside companies in order to make improvements within Consumers Energy in efforts to strengthen customer relationships and increase customer satisfaction
- Corresponded with different departments within the company to mitigate miscommunications and assist in the collaboration between all parties

Facilitator, Leadership Advantage
September 2012-Current
- Facilitated incoming Freshman Engineering students during their first week at Michigan State University
- Lead students in various Engineering based projects such as building trebuchets and making newspaper bridges
- Established ways to improve the program for the next group of incoming freshman based on the results and experiences of the previous year
- Encouraged students in their endeavors to overcome difficulties they faced within their group such as communication issues and technical dilemmas
- Created team building activities that focused on communication, team work, and problem solving to help students understand some of the tasks engineers face and how important communication is within the field
- Responsible for the safety of each student during their time as a participant in the program

Barista, Biggby Coffee
July 2013-January 2014
- Mentored new employees during their training period in order to familiarize them with the company and teach them the skills necessary to be successful
- Specialized in customer service, corresponding with customers and co-workers to resolve any miscommunication errors and created a positive and enjoyable atmosphere for both parties
- Completed customers transactions and increased sales through suggestive selling

Volunteer
- Fundraising for the American Cancer Society
- Engineering Day at Impressions 5
- Peer mentoring for autistic students
- Relay for Life
- Letters to soldiers
- Food drive for Greater Lansing Food Bank
- Flexible and quick to adaptations
- Highly organized and dependable
- Strong time management abilities

Skills
- Experience with NX Unigraphics and MatLab
- Proficient in Microsoft Word, Excel, and PowerPoint
- Biosystems Engineering Club
- Mentor for Women in Engineering
- Phi Sigma Rho - Engineering Sorority
- Student Ambassador, Career Gallery 2014-2015

*References available upon request
Christine Isaguirre  
(616)780-5019  
isaguir3@msu.edu  
3998 Clearview NE  
Grand Rapids, MI 49546

Education

**Michigan State University (MSU), East Lansing, MI**  
Aug 2012-Present

Bachelor of Science, Biosystems Engineering  GPA 4.0/4.0  
- MSU Honors College  
- Dean’s List: 4/4 semesters  
Expected May 2017

Experience

**Unilever Supply Chain Co-op, Personal Care Plant, Raeford, NC**  
July 2014-Dec 2014

Safety, Health, and Environment Department

- Led interdepartmental project team to construct storage and sanitation structure to improve safety, chemical containment, and product quality; potential cost avoidance of $250,000  
- Coordinated continuous facility and process improvements at onsite WWTP including pipe and machine part replacement; installation of heat tracing and pipe insulation; and SOP evolution  
- Learned process for chemical treatment of wastewater, studying a large scale chemical system  
- Instructor for monthly environmental new hire training and annual safety training sessions, group sizes ranged from 2-200 people  
- Gained an understanding of OSHA standards by performing audit and update of LOTO procedures for over 150 machines and created a sustainable annual review process

**Undergraduate Research Assistant, Bioenergy Lab, MSU**  
May 2013-Present

- Working on development and optimization of process to extract fungal lipid for a biofuel source under Dr. Wei Liao  
- Operated centrifuge, autoclave, homogenizer, soxhlet apparatus, fermenter, spectrometer, and automatic atmospheric chamber  
- Created and presented research posters for MID-SURE and UURAF Poster Presentations  

**Level 1 Student Employee, Residential and Hospitality Services, MSU**  
Sept 2012-May 2013

- Provided excellent customer service; prepared and served food to customers  
- Worked in fast paced environment; the cafeteria served over 1,000 patrons per meal

Honors

MSU’s Endorsed Applicant for 2015 Goldwater Scholarship  
Dec 2014

Academic Scholar Program at Michigan State University  
Sept 2012-Dec 2012

Summa Cum Laude, Forest Hills Northern  
May 2012

Incoming Freshman Academic Scholarship Competition Invitation  
April 2012

National Honor Society  
2010-2012

Activities

Society of Women Engineers  
Aug 2013-Present

- Volunteered for a fundraiser to raise money to build a well in Tanzania  
- Mentor for Biosystems group activity during outreach event for elementary girls

Biosystems Engineering Club  
Aug 2013-Present

Women in Engineering Mentoring Program  
Aug 2013-May 2014
Objective
To secure an internship or co-op work for summer 2015 in the Biosystems Engineering field that will enrich and expand my career based experience.

Education
Michigan State University, East Lansing, MI Aug. 2013 - Present
- Bachelor of Science in Biosystems Engineering Expected May 2017
- GPA: 3.56/4.00

Experience
Active Manufacture, Spring Lake, MI Summer 2014
- Decreased cost with an organized packing method
- Operated a computer numerical control (CNC) machine
- Polished off metal fabrication

KL Industries, Muskegon, MI Summer 2014
- Guaranteed positive product performance for customer
- Engineered quick packaging methods

Century Foundry, Norton Shores, MI Summers 2012; 2013
- Engineered smooth transfers from production lines to packaging
- Cleaned machines
- Improved production of product
- Handled dangerous machinery to complete tasks during my second summer
- Minimized breakdowns with 1% failure rate
- Increased production rate

Volunteer
Link Crew, Norton Shores, MI 2011-2013 School year
- Enhanced the production of positive grades of freshman
- Created a positive learning environment for those in need

Skills
- CAD/AutoCAD and Revit 2009-Present
- Experience with Computer Numerical Control machines
- Spanish basic proficiency (3 years)
- MATLAB

Activities/ Honors
- Food Science Club April 2014- Present
- 2014 Howard and Esther McColly Scholarship April 2014
- Biosystems Engineering Club Aug. 2013-Present
Megan Lynn Morley
● 1381 White Birch Lane ● Greenfield, IN 46140 ●
● morleym9@msu.edu ● (317)364-7042 ●

Objective:
Obtain an internship in the field of biosystems engineering that will utilize my skills and hands-on experience.

Education:

Michigan State University, East Lansing MI ● May 2017
Bachelor of Science, Biosystems Engineering, 3.62 GPA

Greenfield-Central High School ● June 2013
Graduated with Technical and Academic Honors

Experience:

Michigan State University Human Health Affairs, East Lansing MI ● November 2014-Present

Health Information Technology, Student Technician
- Responsible for setup and security of all HIT infrastructure in clinical and academic environments
- Day-to-day support of all clinical applications and technologies as well as training for such technologies

Michigan State University, East Lansing MI ● August 2014-November 2014

Union Quick Restaurants, Level 1 Employee
- Quickly learned procedure for preparing food in proficient and safe manners
- Improved communication skills through interaction with customers
- Adjusted to challenging work environment situations in a flexible and responsible manner

United Protection Services, Inc. Anderson IN ● May 2014-August 2014

Security Officer at FedEx Freight
- Analyzed and reported through various forms of Microsoft Office about whereabouts
- Monitored the perimeter of the FedEx Freight through proxy
- Implemented logistics procedures regarding site safety and distribution

United Way, Indianapolis IN ● August 2011-Present

Volunteer for ReadUp in the GCCHS Corporation
- Tutored two struggling third-graders every week to help improve their comprehension and reading skills; tutoring upon availability during college breaks
- Presented feedback to United Way and helped improve methods of learning for the children

Skills:
- Working knowledge of Microsoft Office (Excel, Word, PowerPoint)
- Auto CAD, Inventor, AERY software, MatLab
- Exhibiting leadership skills: orchestrated several service projects in the Greenfield community

Memberships:
- National Honor Society (treasurer), Junior Statesmen of America (secretary), Varsity Tennis (captain), Varsity Cross Country (captain), Women in Engineering (presenter), Student Leadership Academy
- Leadership Advantage, Biosystems Engineering Club (Co-chair of Fundraising), Women in Engineering (mentor), Society of Women Engineering, Phi Sigma Pi National Honor Fraternity

Activities and Honors:
- Volunteer Tutor 3 hours a week at Harris Elementary through the summer assisting 1st graders
- Recognized for leadership through nominations for the National Student Leadership Conference
- Graduated from the Project Lead the Way Program, coordinated by Purdue University
- Presented at Rolls Royce Conference In Indianapolis IN for Project Lead the Way
Matthew K. Vasher
9107 Sea Breeze, Pinckney, MI 48169 ● (734) 417-4306 ● vasherma@msu.edu

Objective
To obtain a challenging internship in the field of biosystems engineering to apply my knowledge and gain experience in industry and research.

Education
B.S. in Biosystems Engineering (Junior standing) Exp. May 2017
Michigan State University, East Lansing, MI
- Biomedical Engineering Concentration
- GPA 4.0/4.0, Dean’s List, Honors College member
- Environment/Health/Safety (EHS) trained

High School Diploma
Pinckney Community High School, Pinckney, MI
- Valedictorian
- GPA 4.0/4.0, Summa Cum Laude

Experience
Undergraduate Research Assistant Sept. 2013 - present
Alocilja Research Group, Nano-Biosensors Lab, Michigan State University
- Received hands-on lab training, mentored by Dr. Evangelyn Alocilja
- Conducted research as part of the Professorial Assistantship program and the Engineering Summer Undergraduate Research Experience (EnSURE)
- Researched methods for rapid and economical detection of pathogens and DNA
- Developed standard operating procedures, posters, and diagrams

DNA-Based Biosensors: Detection of Pathogens through Sandwiched Hybridization July 2014
- Presented poster at the Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE)
- Collaborated with other labs, including one in the Philippines
- Researched methods of detecting E. coli, Listeria, and dengue virus DNA
- Created animated diagrams with Microsoft Visio to illustrate concept

High-Volume Water Sample Processing of Low-Concentration E. coli Apr. 2014
- Presented poster at the University Undergraduate Research and Arts Forum (UURAF)
- Led project to evaluate effectiveness of a portable water pump and cellulose filters
- Created a growth curve for E. coli C3000 using spectrophotometry and plating

Multivariable Calculus Assistive Tools for Visually Impaired Students Dec. 2013
- Constructed Braille-labeled graph models for visually impaired students using a 3D printer
- Engineered graphs using Wolfram Alpha and CloudCompare

Skills
- Knowledgeable in Microsoft Office, Microsoft Visio, and basic MATLAB
- Experienced with operating biosafety level 2 lab machinery, including biosafety cabinets, autoclaves, potentiostats, fluorimeters, and spectrophotometers
- Can perform serial dilutions, plating of bacteria, and other lab techniques

Activities
- Biosystems Engineering Club Sep. 2014 - present
- Concrete Canoe Sep. 2014 - present
- Shaw Hall Senate- Senator Aug. 2014 - present
- Pinckney Community High School Band- Section Leader, Principal Player Aug. 2009- May 2013

Honors and Awards
- Distinguished Freshman Scholarship (full tuition for 8 semesters)- Runner-up in the Alumni Distinguished Scholarship Competition, awarded 2013
- First place team in 2014 MSU CoRe Engineering Competition
- Mensa member- Scored higher than 98th percentile on WISC IQ test
OBJECTIVE
To obtain an internship or co-op position that would allow me to gain more experience and become a valued asset for your organization.

EDUCATION
- Michigan State University, Bachelor of Science
  - Major: Biosystems Engineering
  - Specializations: Agribusiness Management and Bioenergy
  - May 2017
  - 3.18/4.00

EXPERIENCE
Ag Services Operations Intern, ADM - Berlin, Wi
  - Summer 2014
  - Transferring, drying, storage, aeration and blending grain
  - Sampling and grading grain
  - Repairs, troubleshooting and maintenance of equipment
  - Overseeing hourly employees and assigning work
  - Regulatory issues pertaining to: OSHA, EPA, DNR, DOT
  - Implementation of safety programs and procedures
  - Electrical conservation and management

Operator, Ziegler Farms - Ceresco, MI.
  - June 2011 – Present
  - Estimate operating costs and order inventory as needed.
  - Coordinate and prioritize temporary labor activities to achieve daily production quotas and quality work.
  - Schedule planting, cultivation and harvesting of field crops to meet deadlines and effectively manage time.
  - Arrange and perform maintenance of various equipment and machinery in order to prevent loss of time, breakage, and equipment failures.
  - Responsible for the operation of three irrigation systems.
  - Manage 20+ head of beef cattle.

Executive Committee in Kappa Sigma Fraternity - East Lansing, MI
  - April 2013 - Present
  - Scholarship Chair - Implemented new academic programs.
  - Assist. Philanthropy Chair - Assisted in creation of a new annual fundraising event for Military Heroes Campaign.
  - Demonstrated ability to handle responsibility by competently completing designated tasks to better organization.
  - Worked independently and in collaborative situations to achieve objectives.
  - Assist in facilitating meetings to discuss organization needs and policy changes to increase scholarship, leadership, fellowship and service.

RELEVANT COURSEWORK
- Commodity Marketing
- Engineering Modeling and Design, Matlab, AutoCAD, Labview
- Student Leadership Training
- Professional Skills Seminar

HONORS AND ACTIVITIES
- Biosystems Club - Representative for College of Agriculture & Natural Resources
  - Spring 2013 – Present
- MSU- Agronomy Club
  - Fall 2013 – Present
- Deboer Scholarship
  - Spring 2014
- Campbell Soup Academic Scholarships
  - Fall 2012 – Present
- Battle Creek Community Foundation
  - Fall 2012
Objective
To obtain an internship or co-op in the field of biological engineering with a focus in human health.

Education
Michigan State University | East Lansing, MI
B.S, Biosystems Engineering (Biomedical Concentration) Expected May 2018

Thomas Jefferson High School for Science and Technology | Alexandria, VA
GPA 4.01, National Honor Society, National Merit Commended Sep 2010 – May 2014

Experience
Professorial Assistant, Nanobiosensors Research Lab Aug 2014 - Current
• Working to help develop magnetic nanoparticle-based biosensors to diagnose tuberculosis.

Resident Assistant, Spartan Debate Institutes Jul 2014 – Aug 2014
• Supervised and coached high school debaters. Judged practice and tournament debate rounds, and provided debate argument advice.

• Analyzed the capabilities of consumer 3D printers to produce exact-tolerance parts. Discovered an inverse relationship between the size of the part and the percent increase in the part needed. Forwarded my discoveries to another school lab creating a prototype 3D-printer design.

Facilitator, Kids Are Scientists Too Sep 2012 – May 2014
• Worked with elementary students to provide fun and engaging after-school workshops in science, technology, engineering and math.

Skills
Languages: Conversational Spanish
Computer Aided Design: Autodesk Inventor, SolidWorks, Revit Architecture, MakerBot 3D Printers
Programming: Basic Java

Memberships
Biosystems Engineering Club Aug 2014 – Current
Society of Women Engineers Aug 2014 – Current
Biotechnology Club (Activities Coordinator) Sep 2012 – June 2014
Art Club (President) Sep 2012 – June 2014
Teknos, The Journal for Science, Technology and Mathematics (Senior Editor) Sep 2010 – June 2014

Activities/Honors
Debate Team (TJHSST and MSU)
• Varsity Debate in high school and college.
• Top speaker at tournament, Washington Area Catholic Forensics League.

National AP Scholar
• Award for passing exam score in 10 or more AP classes.

Distinguished Freshman Scholar (Michigan State)
• Award for second place in the Alumni Distinguished Scholarship Competition.
Resume Book
Fall 2014 / Spring 2015

Recent Graduates / Graduate Students
Matthew Dylan Coleman
231-649-4393/m.dyl.coleman@gmail.com
Traverse City, MI 49686

Education

Michigan State University; East Lansing, MI
  September 2010-May 2014
  o B.S. Biosystems Engineering
  o GPA: 3.06/4.00; Dean’s List

Experience

Usher/Ticket Taker-Wharton Center; East Lansing, MI
  September 2010-May 2014
  o Directed, communicated with, and aided hundreds of patrons nightly

STEG Research Assistant-Biomedical Engineering Building; Ann Arbor, MI
  May 2013-August 2013
  o Brainstormed and fabricated a plug for atrial septal defect patients
  o Designed plugs in NX8.5 modeling program
  o Optimized synthesis process; synthesized and cured polymer material
  o Researched and edited technical documents

Host/Busser-Mackinaw Brewing Company; Traverse City, MI
  May 2012-September 2012
  o Collaborated with co-workers to organize the restaurant
  o Created effective solutions in a high stress environment

Crew Member-McDonalds; Traverse City, MI
  May 2011-September 2011
  o Participated in a fast-paced, team-oriented environment
  o Motivated and assisted co-workers in order to streamline the production process

Engineering Intern-Tellurex Corporation; Traverse City, MI
  June 2009-August 2009
  o Collaborated with production manager on numerous projects
  o Analyzed and remedied products based on test results
  o Created an inventory list for spare parts

Skills Profile

  o OS: Mac, Windows
  o Proficient in MS Office: Word, Excel, PowerPoint, Visio, Access
  o Knowledgeable with AutoCAD, Matlab and NX

Activities

  o Member of the American Society of Agricultural and Biological Engineers 2014-Present
  o Biosystems Engineering Club 2012-2014
  o MSU IM Soccer 2013-2014
  o Traverse City Ultimate Frisbee league 2010-2014
  o MSU Men’s Glee Club 2010-2011
Education

M.S. Biosystems Engineering, Michigan State University, East Lansing, MI
Advisor: Jade Mitchell | Committee: J. Mitchell; J. Rose; and E. C. Alocilja
Certification: EIT, Environmental Engineering
Relevant coursework: Water and Wastewater Engineering, Hydrology, Dynamics of Environmental Systems, Mixing and Transportation in Surface water, Analysis of Biological Systems, Instrumentation Biosystems Engineering, Env. Chemistry

B. Tech. Chemical Engineering, SASTRA University, Thanjavur, India

Key Skills & Knowledge Areas
Process engineering | Retrofitting | Throughput maximization | Chemical and microbial kinetics | Predictive modeling (MATLAB, R, Python) | Water & wastewater treatment | Quality control

Research and Engineering Experience

- Graduate Research Assistant, Michigan State University, East Lansing, MI
  Literature survey, collection and analysis of quantitative microbial recovery data of weaponized Bacillus anthracis spores for the Center for Advancing Microbial Risk Assessment, jointly funded by U.S. EPA and the Department of Homeland Security; planning, designing and hypotheses testing for recovery of bacillus spores from HVAC filters over a short-term for identifying the trend of recovery and suitable surrogate.

- Graduate Student Employee, Dept. of Biosystems & Agricultural Engineering, MSU, East Lansing, Michigan
  Worked on data and statistical analysis of long-term bacterial persistence for Quantitative Microbial Risk Assessment (QMRA) using ‘R’. Other responsibilities included creating literature review on kinetic models in bacterial recovery, and collaboration in manuscript preparation for scientific publications.

- Process Design Intern, Larsen & Toubro, ECC, Chennai, India
  Studied the qualitative parameters of water from Barmer District, Rajasthan located in West-India at the quality control laboratory and also visited the municipal water treatment plant to revise the process scheme. Designed and proposed a process train and sized the entire plant with a prime focus on optimizing the usage of chemicals and cost of power consumption. Created an interface for the designing processes on MATLAB for future projects which helped the team to save on time and improved the precision. The project was jointly funded by Govt. of Rajasthan and Govt. of India.

- Equipment Design Trainee, Bharat Petroleum Corporation Limited., Kochi, India
  Underwent training on various stages of gasoline production and identified Fluid Catalytic Cracker Unit (FCCU) as the key component of the plant and proposed a refurbishment of the electrostatic precipitator as it was turning obsolete. Recommended a substitute for a ‘Shell & Tube’ heat-exchanger as its heat transfer capacity was lessening. Added value to the power regeneration scheme by estimating the power from coke and pitch byproducts and hypothetically studied the feasibility of tapping wind and tidal energy sources in the vicinity.

Awards and Scholarship

- MSU Department of Biosystems and Agricultural Engineering, Merle and Catherine Esmay Scholarship 2014
- SASTRA University Dean’s Merit List Award 2009-11
- SASTRA University Department of Chemical Engineering, Subject Topper Award in Particle Mechanics, Chemical Reaction Engineering, Thermodynamics, and Fluid Mechanics. 2009-10; 2010-11
- National Cadet Corps, 4(TN) Girls Battalion, Tamil Nadu, Best Emcee Award for outstanding planning and hosting of cultural events 2010

Presentations

- B. Murali, and J. Mitchell, “Modeling the Recovery of Bacillus Spores from HVAC Filters”, Sixth Annual Graduate Academic Conference, East Lansing, MI (March 2014)
- B. Murali, and J. Mitchell, “Recovery of Bacillus anthracis Spores from HVAC Filters Using Two Quantification Techniques”, Engineering Graduate Research Symposium, East Lansing, MI (March 2014)

Professional and Social Affiliations

- Student Member of American Society of Agricultural and Biological Engineers May 2014- present
- Graduate Academic Board Representative, MSU Biosystems and Agricultural Engineering 2013-14
- President, Indian Students Association, Michigan State University 2012-13
- V-President, Indian Institute of Chemical Engineers, Student Chapter, SASTRA University, Tamil Nadu, India 2011-12
Jessica Palmer  
(248) 390-8587 | palmer85@msu.edu  
1631 Charles Ave, St. Paul, MN 55104

Objective
Dedicated and hardworking engineering graduate seeking to obtain a full-time position in the biotechnology industry

Education
Michigan State University | East Lansing, MI
Bachelor of Science, Biosystems Engineering May 2014
• Biomedical Engineering Concentration
• GPA 3.04/4.00
• Academic Projects
  ▪ Developed and constructed a low cost, portable, and efficient phototherapy device for the treatment of infant jaundice in Southeast Asia, a year-long project with corporate sponsor Sygiene
  ▪ Performed a semester-long analysis of the optimal biofluid mechanics and potential side effects of artificial lungs
  ▪ Completed life cycle assessment and sensitivity analysis on the environmental and health impacts of palm oil and soybean biodiesel

Experience
Continuation Engineer (Contractual)
Reviva | Fridley, MN Sept 2014-Nov 2014
• Ran time studies to chart data on manufacturing flow across nine areas of factory floor
• Performed statistical analysis to determine significant quality issues using Excel software
• Used Lean and 5S engineering principles to develop strategies to increase efficiency by 10-15%

Sanitation Supervisor
MSU Brody Cafeteria | East Lansing, MI Sept 2009-April 2014
• Promoted twice from General Kitchen Worker
• Supervised teams of 5-15 workers during daily operation
• Collaborated with other area heads to refine cafeteria procedures

Office Assistant
The Artist's Apprentice | Clarkston, MI May 2007-July 2014
• Managed advertising campaigns through a variety of mediums
• Oversaw transportation of company supplies to multiple locations
• Constructed and maintained company website

Head of House
EVE | Lansing, MI Sept 2010-Sept 2013
• Provided extensive customer service to customers of varying temperaments
• Trained and assisted in interviewing new and potential employees
• Kept track of client records

Skills
• Proficient in AutoCAD, MATLAB, HTML, LabView, C++
• Extensive knowledge of Project and Excel, in addition to basic Microsoft program proficiency
• Fluent in French
Rachael K. Sak  
sakracha@msu.edu  
11890 Creekside Lane, Brighton, MI  48114  
810-986-5033

Education

Masters of Science, Biosystems Engineering, Michigan State University (MSU), E. Lansing, MI  
Aug. 2014-Present

Bachelor of Science, Biosystems Engineering, MSU, East Lansing, MI  
May 2014
- GPA 3.6/4.0

Associate of Arts Degree, South Puget Sound Community College, Olympia, WA

Employment History

Undergraduate Research Assistant, MSU, East Lansing, MI  
(10-20hrs/wk) Aug 2012-Present
- Work with a software program that monitors temperature, flow, and electrical inputs throughout a fast pyrolysis screw reactor, electrostatic precipitator and a flame calorimeter.
- Work with a pyrolysis reactor and varied biomass in efforts to produce renewable liquid fuel.
- Work with a torrefier and briquetter to produce hardwood briquettes for drop-in coal replacement.
- Work with a hammer mill and knife mill to grind biomass.
- Perform lab work associated with assessing the properties of the biomass and the bio-oil generated; including thermo-gravimetric analysis, bomb calorimetry, Karl Fischer and electrocatalysis.
- Keep abreast of global research efforts that may prove beneficial to research at MSU.
- Wrote the Standard Operating Procedure for the pyrolysis reactor, precipitator and bomb calorimeter.

Thermodynamics Class Teaching Assistant, MSU, East Lansing, MI  
(10hrs/wk) Fall 2013 & Aug 2014-present
- Grade homework
- Maintain office hours for student drop-in help
- Fill-in for instructor during absences

Engineering Summer Undergraduate Research Experience, MSU, East Lansing, MI  
(40hrs/wk) Summer 2013
- Worked on methodology for successful fast pyrolysis of poplar through a pyrolysis reactor in light of poplar’s challenging low temperature lignin plasticization.
- Used thermo-gravimetric analysis to determine optimal pyrolysis temperatures.
- Calibrated a bomb calorimeter and performed heating value analysis on poplar, bio-oil and bio-char.
- Developed an Excel workbook to facilitate higher heating value calculations.
- Worked on a life cycle analysis of poplar-to-biofuel.

Patient Services Assistant, University of Michigan Health Systems, Ann Arbor, MI  
(32hrs/wk) Feb 1998-Jul 2010
- Processed and helped fulfill physician orders; maintained medical charts; answered patient call lights.
- Assisted patient families with their needs and concerns.
- Trained, mentored, and evaluated new employees.
- Evaluated the performance of new software programs before their implementation.
- Represented the Patient Services Assistants on a panel created to develop an on-line order entry and medical records system unique to the University Health System.

Secretary III, Food Procurement Group, University of Michigan, Ann Arbor, MI  
(40hrs/wk) Feb 1997-Feb 1998
- Provided full range of administrative skills and expertise. Position required extensive customer service, product purchasing, and payment and delivery coordination.

Miscellaneous

Proficient in Word, Excel and PowerPoint
Trained in NX 8.5, Minitab, LabView, MATLAB, ArcGIS, EPA Basins, and NRCS Win TR-55 (one semester each)
Holder of a commercial driver’s license
EDUCATION

Michigan State University East Lansing MI

Master of Science: Biosystems Engineering, May 2015
- GPA: 3.53
- Related Course Work: Science & Technology of Wine Production, Advance Statistics for Biologists, Analysis of Biological Systems, Bioenergy Feedstock production, and Technical Writing

Bachelor of Science: Biosystems Engineering, May 2013
- GPA: 3.35

EXPERIENCE

LIAO RESEARCH GROUP, East Lansing, MI

Research Assistant September 2013 – Present
- Investigate the nature, composition, and function of fungal lipid, and research how different culture and extraction method can impact the lipid yield
- Participate in different group projects in different area including flask algae culture, large scale anaerobic digestion, electrocoagulation of digestion effluent, and solar system design
- Share research findings by writing scientific articles and professional presentations

Undergraduate Lab Assistant January 2012 - May 2013
- Perform laboratory work that embodies logging numerical and visual observations, preparing and packaging samples, and recording test results
- Refine the solar integrated anaerobic digester and build the electricity control system
- Assist the daily operation of anaerobic digestion experiments in the lab
- Operate different experiments (Fiber analysis, DNS sugar analysis, and HPLC)

MSU ANAEROBIC DIGESTION RESEARCH AND EDUCATION CENTER, East Lansing, MI

Undergraduate Lab Assistant August 2010 - August 2011
- Managed the daily operation of several digesters including feeding them and measure several parameters of samples
- Performed daily tests on influent and effluent samples to ensure quality control of digestion
- Detected and fixed mechanical problems for all projects to maintain system status and quality data
- Retained detailed data records for all projects and assisted with management of laboratory documents

LEADERSHIP ACTIVITIES

CHINESE CONVERSATION CLUB, East Lansing, MI

President August 2012 – Present
- Organize weekly meeting with about 20 students and develop leadership and management skills
- Help Chinese language students understand Asian culture and practice Chinese oral language skills with them reinforce communication skills
- Tutor and plan events to strengthen the ability to present, teach, communicate, and organize

BAE GRADUATE STUDENT ADVISORY GROUP

Treasurer September 2013 – present
- Cooperate with group president on organizing meetings and events
- Manage the funding of the group and responsible for collecting money for events