

Michigan State University
College of Engineering; Dept. of Electrical and Computer Eng.
ECE 480 Capstone Design Course Project Charter

Sponsoring Company/ Organization:

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Shared Human-Robot System Integration using EEG and Eye-Tracking

This project will involve processing EEG and eye-tracking data to model human-intent in real-time and use that for shared closed-loop control of autonomous systems. The students will collect data using a non-invasive EEG device and a portable eye-tracking device, and use machine learning techniques to learn the mental state. The mental state will provide the contextual information for the control of autonomous system. The choice of autonomous system will be a ground robot or an aerial robot.