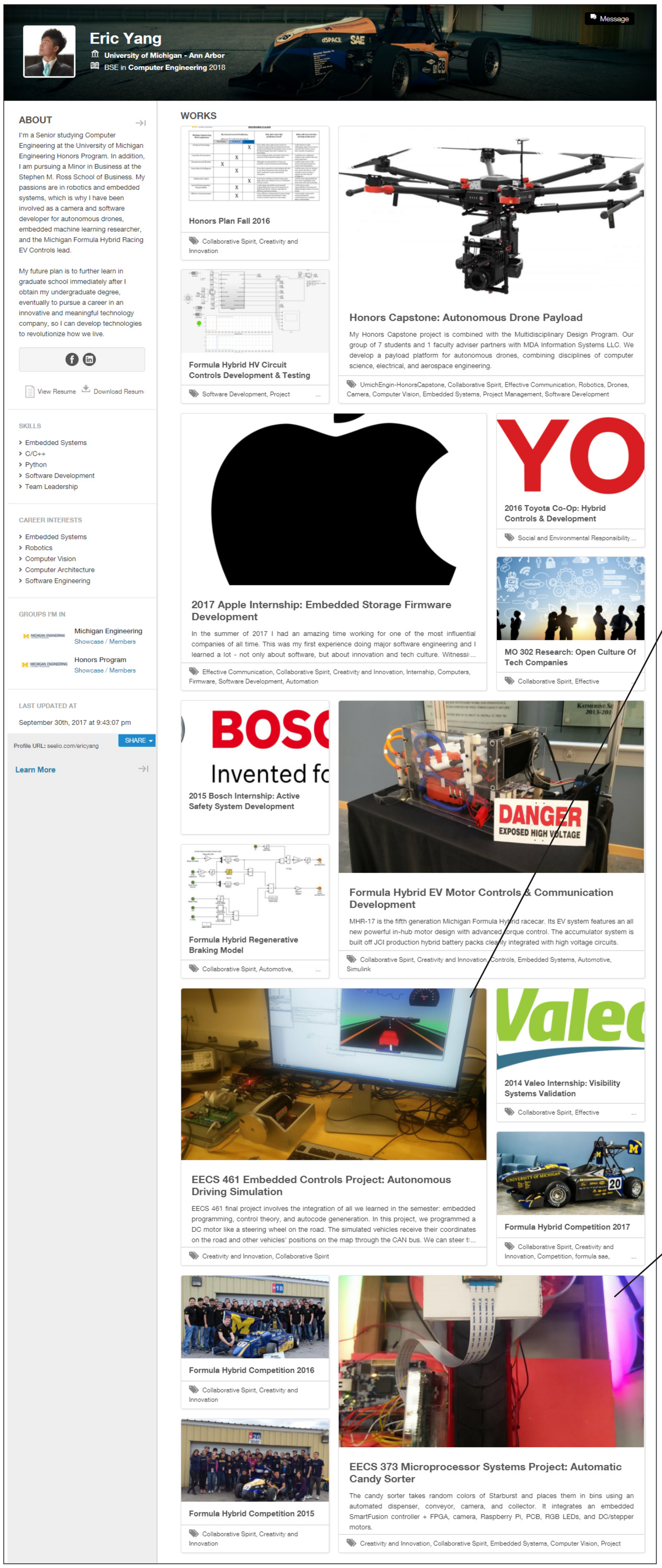
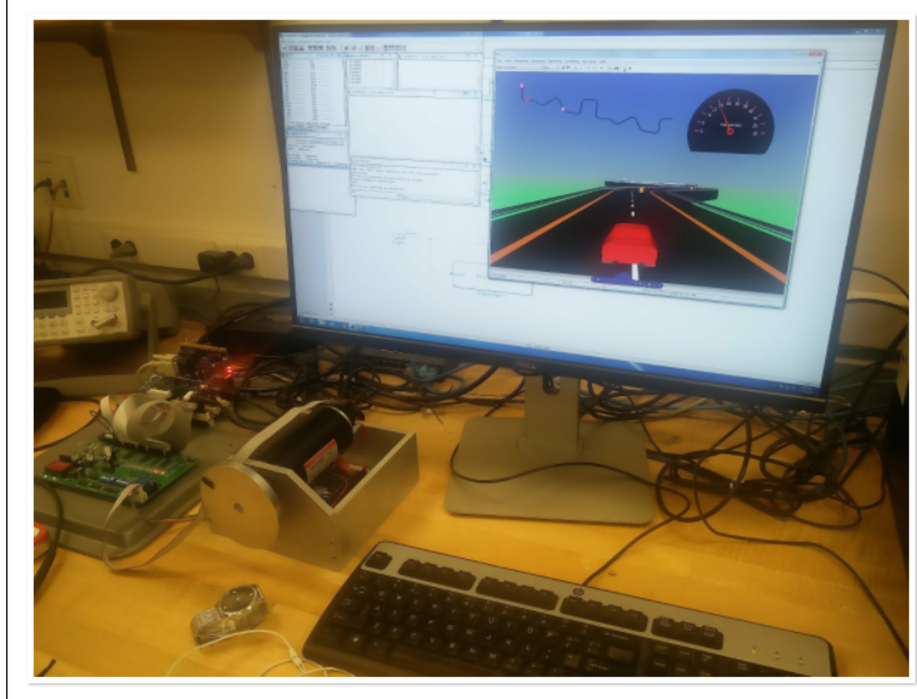
seelio

Eric Yang

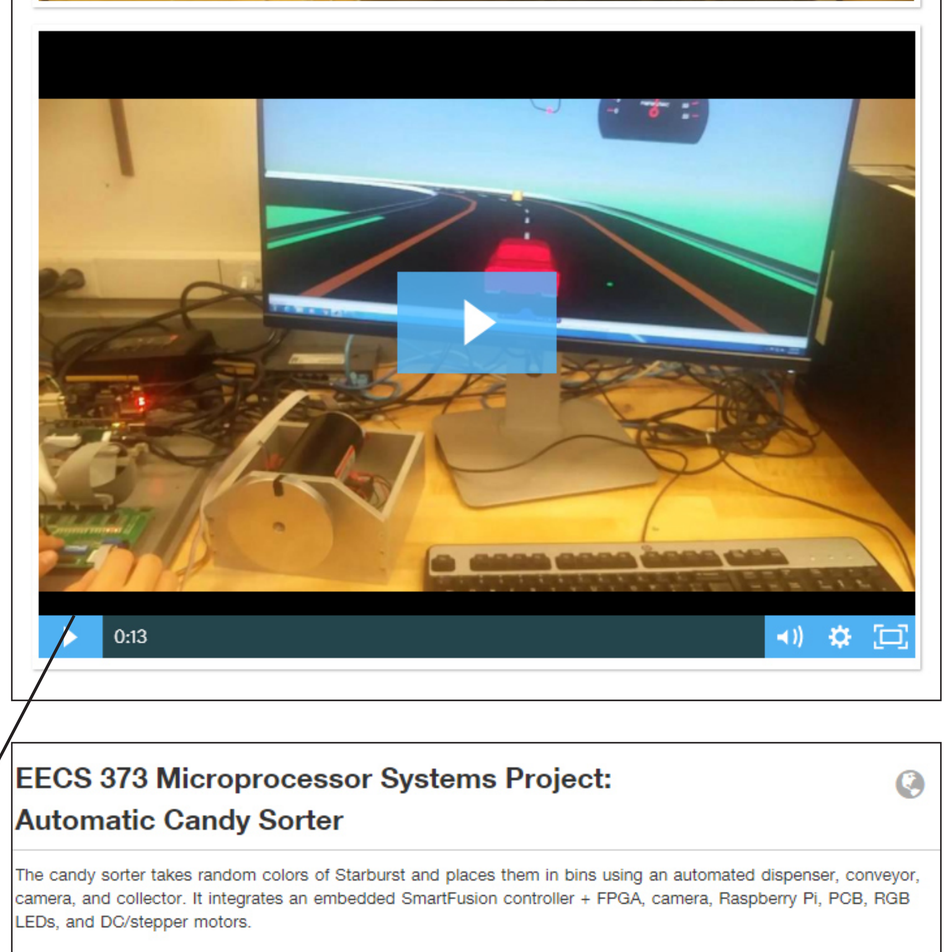
Seelio partners with several University of Michigan departments and colleges. Students display coursework, professional accomplishments, and personal reflections in a rich multimedia format. Instructors can create private groups for courses and use ePortfolios to assess student outcomes.





EECS 461 Embedded Controls Project: Autonomous Driving Simulation

EECS 461 final project involves the integration of all we learned in the semester: embedded programming, control theory, and autocode geneneration. In this project, we programmed a DC motor like a steering wheel on the road. The simulated vehicles receive their coordinates on the road and other vehicles' positions on the map through the CAN bus. We can steer the wheel manually and it would provide haptic feedback of the road. We can also enable adaptive cruise control to follow the car in front of us at a certain speed. Finally, a PID loop controls the vehicle to stay in the center of the lane and make turns.



EECS 373 Microprocessor Systems Project: Automatic Candy Sorter

The candy sorter takes random colors of Starburst and places them in bins using an automated dispenser, conveyor, camera, and collector. It integrates an embedded SmartFusion controller + FPGA, camera, Raspberry Pi, PCB, RGB LEDs, and DC/stepper motors.