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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.

**Eric Yang**
University of Michigan - Ann Arbor
BSE in Computer Engineering 2018

ABOUT

I'm a Senior studying Computer Engineering at the University of Michigan Engineering Honors Program. In addition, I am pursuing a Minor in Business at the Stephen M. Ross School of Business. My passions are in robotics and embedded systems, which is why I have been involved as a camera and software developer for autonomous drones, embedded machine learning researcher, and the Michigan Formula Hybrid Racing EV Controls lead.

My future plan is to further learn in graduate school immediately after I obtain my undergraduate degree, eventually to pursue a career in an innovative and meaningful technology company, so I can develop technologies to revolutionize how we live.

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WORKS

| Project | Skills | Tools |
|--|---|-------|
| Honors Plan Fall 2016 | Collaborative Spirit, Creativity and Innovation | |
| Formula Hybrid HV Circuit Controls Development & Testing | Software Development, Project | |

Honors Capstone: Autonomous Drone Payload

My Honors Capstone project is combined with the Multidisciplinary Design Program. Our group of 7 students and 1 faculty adviser partners with MDA Information Systems LLC. We develop a payload platform for autonomous drones, combining disciplines of computer science, electrical, and aerospace engineering.

UmichEngin-HonorsCapstone, Collaborative Spirit, Effective Communication, Robotics, Drones, Camera, Computer Vision, Embedded Systems, Project Management, Software Development

SKILLS

- Embedded Systems
- C/C++
- Python
- Software Development
- Team Leadership

CAREER INTERESTS

- Embedded Systems
- Robotics
- Computer Vision
- Computer Architecture
- Software Engineering

GROUPS I'M IN

Michigan Engineering
Showcase / Members

Honors Program
Showcase / Members

LAST UPDATED AT
September 30th, 2017 at 9:43:07 pm

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2017 Apple Internship: Embedded Storage Firmware Development

In the summer of 2017 I had an amazing time working for one of the most influential companies of all time. This was my first experience doing major software engineering and I learned a lot - not only about software, but about innovation and tech culture. Witness...

Effective Communication, Collaborative Spirit, Creativity and Innovation, Internship, Computers, Firmware, Software Development, Automation

2016 Toyota Co-Op: Hybrid Controls & Development

Social and Environmental Responsibility...

MO 302 Research: Open Culture Of Tech Companies

Collaborative Spirit, Effective

2015 Bosch Internship: Active Safety System Development

Formula Hybrid Regenerative Braking Model

Collaborative Spirit, Automotive, ...

Formula Hybrid EV Motor Controls & Communication Development

MHR-17 is the fifth generation Michigan Formula Hybrid racecar. Its EV system features an all new powerful in-hub motor design with advanced torque control. The accumulator system is built off JCI production hybrid battery packs cleanly integrated with high voltage circuits.

Collaborative Spirit, Creativity and Innovation, Controls, Embedded Systems, Automotive, Simulink

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 generation. 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.

Creativity and Innovation, Collaborative Spirit

Formula Hybrid Competition 2016

Collaborative Spirit, Creativity and Innovation

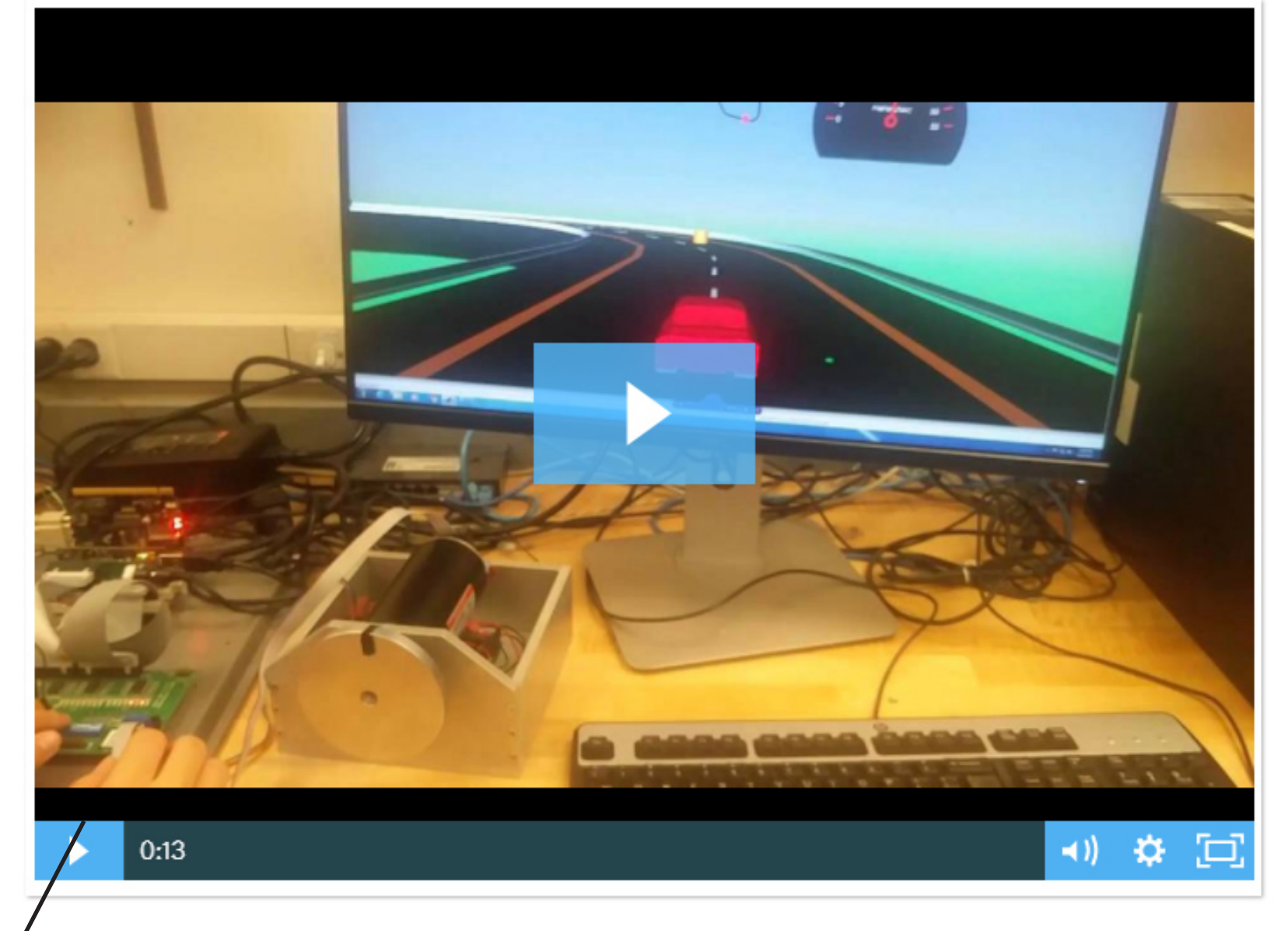
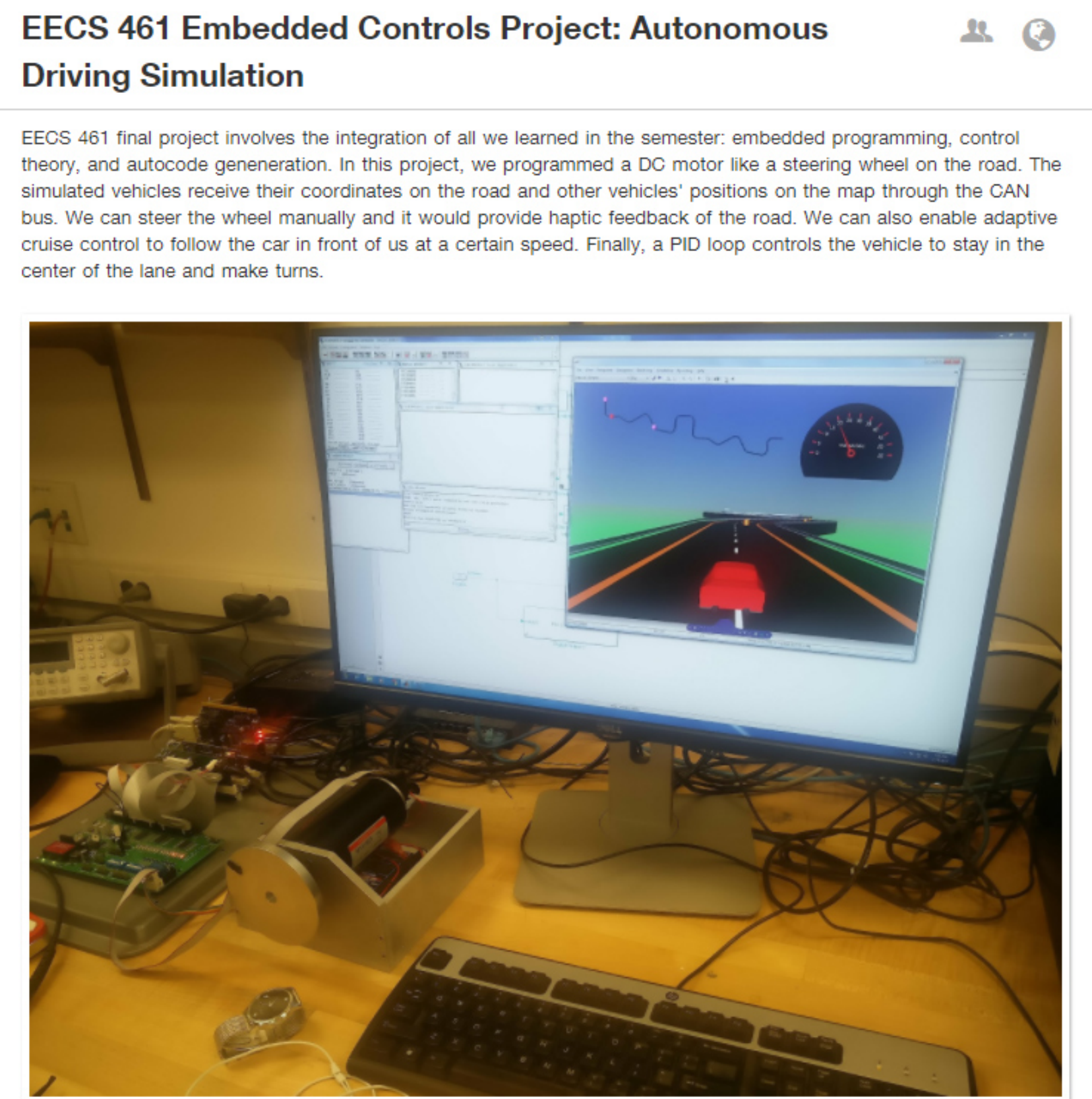
Formula Hybrid Competition 2015

Collaborative Spirit, Creativity and Innovation

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.

Creativity and Innovation, Collaborative Spirit, Embedded Systems, Computer Vision, Project



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