

Andrew Chen

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Objective

An opportunity to gain valuable hands-on experience in a summer internship in industry.

Education

Bachelor of Science Electrical Engineering, June 2019
University of California Los Angeles

Enrolled in EE Fast Track Program
GPA: **3.917** Status: Sophomore

Projects

Wearable Shoulder Motion Tracker (E96) Oct-Dec 2015
Used an Intel Edison Compute Module with 9 Degrees of Freedom Sensor to measure shoulder rotational position. Attached buzzer provides feedback on correct pushup form.

Automated Color-detecting Garage Door (EE3) April-June 2016
Rotating cardboard garage door opens if object detected and its color is green (opens fast) or blue (opens slowly). Powered by NI myDaq and programmed in Labview.

IR Distance Sensor (UCLA IEEE: OPS) February 2016
Distance sensor with a blue indicator LEDs that lights brighter as an object. An IR LED shines and a detector receives reflected IR light to measure position. Logic controlled by a Teensy board.

Rodent (OPS) April-June 2016
Simplified Micromouse with PID control to follow a path laid out by a maze of walls. Programmed on a Teensy paired with two IR distance sensors and two motors connected to an H bridge.

Micromouse (UCLA IEEE) Sept 2016-present
Building a Micromouse for competitions in the spring. Involves selecting parts, assembling the mouse, and programming it. Currently assembling a generic Rat as practice for the actual car.

Experience

Summer Research (REU) at UCLA Summer 2016
Worked in Professor Christina Fragouli's lab on a variation of pliable index coding, where messages are sent and coded in a way to satisfy client requests. Applications in satellite broadcasts and wireless networks

Physics 1AH (Mechanics) Tutor Fall 2016-present
Weekly one hour sessions for a group of 5-10 Fast Track students enrolled in Physics 1A Honors

Skills

Soldering, Programming (Xcode, Matlab, Labview, Arduino), PCB design (Eagle); Microsoft Word, Excel, and PowerPoint; QGIS (map design and analysis)

Clubs and Honors

UCLA IEEE OPS (Open Project Space) member 2015-2016
Micromouse member Fall 2016-present
Tau Beta Pi, candidate Fall 2016-present
HKN (EE Honor Society), candidate Fall 2016-present