Jonathan Low

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Education

University of California, Irvine. *Computer Science And Engineering* — June 2022
‣ GPA: **3.49**
‣ Relevent Course work: CS 61a, Macroeconomics, Multivariable Calculus, Linear Algebra

Skills

‣ Technical: macOS, Python, Arduino
‣ Tools: KiCAD, soldering, AutoCAD, Photoshop, Excel
‣ Languages: English, Mandarin

Projects

Micromouse — Oct. 2018 – Present
‣ Designed a robotic "mouse" that uses IR sensors and motors with encoders to navigate and map a 16x16 maze
‣ Made a test mouse on perf board to ensure all the parts worked together correctly
‣ Created a Schematic and PCB in KiCAD
‣ Currently programming basic movements and sensor data acquisition functions

Macropad — March 2019 – Aug. 2019
‣ Built a 4x4 keypad that uses mechanical key switches, which can be customized to simulate any key press and run a sequence of key presses
‣ Hand soldered through hole and surface mount components
‣ Programmed an LED driver to perform fully customizable back-lighting patterns
‣ Designed the casing in AutoCAD and laser cut it out of plywood

Discord bot — Aug. 2017 – Feb. 2018
‣ Wrote a bot in JavaScript that is used to pull posts off of Reddit
‣ Implemented Reddit's API and is capable of listing posts on a page, sorting posts on a subreddit, and retrieving posts

Activities

Zotbotics (UCI Robotics) — Aug. 2018 – Oct. 2018
‣ Designed and constructed controllable t-shirt cannon on a team with 10 other university students
‣ Independently worked on the trigger and safety mechanism to prevent any misfires
‣ Demonstrated the cannon during the annual UCI club faire in front of over 1,000 students

Peer Tutor — Sept. 2017 – June 2018
‣ Aided over 30 students varying from high school freshmen to seniors in math, computer science, Mandarin, and chemistry
‣ Simplified complex concepts to increase students' comprehension and performance in school

Camp Teen Assistant — June 2015 – June 2017
‣ Volunteered as a teen assistant for Oakland Zoo's summer camps and accumulated over 200 volunteer hours
‣ Managed the schedule of campers to ensure no problems occurred and designed group activities

Student Ambassador — Oct. 2017 – June. 2018
‣ Gave tours to fifteen prospective families and answered their questions regarding school life and atmosphere
‣ Allowed eight middle school students to shadow my daily classes and routines
‣ Coordinated and prepared three schoolwide events to establish a closer connection to the school and reveal the opportunities available to prospective students