

# Jonathan Low

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## Education

University of California, Irvine. *Computer Science And Engineering*

Expected Graduation Year - 2022

▸ GPA: **3.49**

▸ Relevant Course work: CS 61a, Macroeconomics, Multivariable Calculus, Linear Algebra

## Skills

▸ Technical: macOS, Python, Arduino

▸ Tools: KiCAD, soldering, AutoCAD, Photoshop, Excel

▸ Languages: English, Mandarin

## Activities

### Zotbotics (UCI Robotics)

August – October '18

▸ Designed and constructed controllable t-shirt cannon on a team with 10 other university students.

Specifically created the trigger and safety mechanism. The cannon was demonstrated during the annual UCI club faire.

### Peer Tutor

September '17 – June '18

▸ Aided students in math, computer science, Mandarin, and chemistry. Tutored over 30 different students varying from high school freshmen to seniors.

### Camp Teen Assistant

June '15 – June '17

▸ Volunteered as a teen assistant for Oakland Zoo's summer camps. Responsibilities included keeping track of campers, schedules, planning and implementing activities. Accumulated over 200 volunteer hours.

### Student Ambassador

October '17 – June '18

▸ Hosted students and gave tours to prospective families allowing them to shadow my daily classes and routines. Coordinated and prepared schoolwide events.

## Projects

### Micromouse

October '18 - Present

▸ Designed a robotic "mouse" that uses distance sensors to navigate and map a 16 x 16 maze. Selected the components for the mouse, such as the Teensy 3.2 to be the processor, and IR emitters/receivers to detect paths in the maze. Created the Schematic and PCB in KiCAD.

### Gamepad

July – Present

▸ Built a 4x4 keypad that uses mechanical key switches. Each key can be customized to simulate any key or even run a sequence of key presses. Some example uses are using it as an external number pad a laptop or as a keypad for running macros. It features an LED driver which gives individual control over the 16 LEDs, allowing fully customizable back lighting. Created the PCB in KiCAD and hand soldered on all components. Designed the casing in AutoCAD and laser cut it out of plywood.

### Discord bot

August '17 – February '18

▸ Wrote a bot in JavaScript that is used to pull posts off of Reddit. The bot implements Reddit's REST API and is run with Node.js. It is capable of listing posts on a page, sorting posts on a subreddit, and retrieving posts.