

## SUMMARY

Junior level Electrical Engineering student looking for a coop/internship position. Experienced in embedded systems, circuit/PCB design & testing, and developing web apps & software tools

## EDUCATION

### UNIVERSITY OF CALIFORNIA – LOS ANGELES

B.S. Electrical Engineering 2018

GPA: 3.925/4.000

### CITY COLLEGE OF SAN FRANCISCO

Engineering Transfer 2016

GPA: 4.000/4.000

## RELEVANT COURSEWORK

- Data Structures & Algorithms (C++)
- Introduction to Computer Organization (C)
- Circuit Analysis (HSPICE & Multisim)
- Electromagnetics
- Digital Signal Processing (MATLAB)
- Probability and Random Processes in EE (MATLAB)

## SKILLS / TECHNOLOGIES

**EXPERIENCED:** C/C++, Arduino, ARM mbed (RTOS)

**WORKING KNOWLEDGE:** MATLAB, EAGLE, Javascript, HTML, CSS, Python, HSPICE, Multisim, Git, Linux/Windows

## PROJECTS

### HOT MEALS – LA HACKS 2017 *(HTML, CSS, Javascript, Node.js, Angular.js)*

Apr 2017

- As a team, created a platform that directed the hungry to the nearest food banks and participating food places
- Implemented map interface, designed pages using CSS, and integrated pages into the Angular framework.
- Awarded “Best Civic Hack” by the City of Los Angeles

### MICROMOUSE ROBOT *(Coded in C++, ARM mbed, Designed in EAGLE)*

Sep 2016 – Mar 2017

- As a team, built an STM32F4 based robot that finds the fastest route in a maze
- Designed schematics and PCB layouts for motor/sensor interfaces, power system, & microcontroller breakout
- Implemented software for motor control, sensor interfacing, PID feedback control, and maze solving algorithm
- Awarded “Best 1<sup>st</sup> Year Participant”, All American Micromouse Competition 2017

### BRUIN NAV *(Coded in C++)*

Mar 2017

- Created a turn-by-turn navigation system that presents the shortest route for trips within Los Angeles
- Implemented path-finding algorithms and optimal data structures for quick query processing
- Among the top 5% scorers out of 400 students

### SMART BARBELL COLLAR – IDEAHACKS 2017 *(Coded in C++, HTML, CSS)*

Jan 2017

- As a team, built a barbell collar that helps weightlifters maintain proper form through a smart phone app.
- Designed and built circuit for interfacing gyroscopes and accelerometers with the MSP430 LaunchPad.
- Top 9 finalist

### MUSIC VISUALIZER *(Coded in C, Designed in EAGLE)*

Nov 2016

- Created an Arduino based device that displays the spectrum analysis results of input audio onto an LED matrix
- Designed circuits for multiplexing the LED matrix and using the MSGEQ7 audio processing chip with an Arduino

## LEADERSHIP / ACTIVITIES

### SENATOR

Sep 2015 – Apr 2016

Associated Student Council, CCSF- Ocean

- Managed public relations campaign that increased student council election voter turnout by 1000%
- Communicated student body issues to administrators and to other students