

Justin Chang

jchang0916@ucla.edu
<https://github.com/jchang12345>
Cell: (626) 318-2080

Education:

University of California, Los Angeles: Bachelors Electrical Engineering June 2020
College GPA: 3.85

Experience:

High School Math and Physics **Tutor:** helped 100+ students October 2015-June 2016

Car Insurance Ads **Research Assistant:** January 2017-April 2017

-tracked consumer behavior over years and company behavior. (paid job)

Spinal Cord Injury **Research:** **April 2017-Present**

-Raspberry Pi 3, Arduino gpio and small assignments in a team.

Other Computer Relevant Skills/Interests:

Attended **LA Hacks:** March 2017

-worked on javascript, html, and created personal website <http://termular.me/>

Attended **Cal Hacks:** November 2016

-learned swift programming and created a few simple iOS apps (on github)

UCLA IEE (OPS/Micromouse) **September 2016-Present**

-basics of EECS, hardware components and connection to microcontrollers, soldering, EAGLE CAD PCB design

-worked on a micromouse maze traversing robot using IR sensors, arduino (C programming), and L239D h bridge. Link to project in personal website.

CS32 (Data Structures and Algorithms Course)

- Functions, Pointers, Classes, Recursion, Data Structures (Arrays, Linked List, BST, Hash Tables, Heaps) , STLs (Queues, Stacks, Vector (dynamically reallocated array), List) Inheritance/Polymorphism, basic Algorithmic Complexity

EE96C (Intel Edison, IOT Course)

-Intel Edison basics, HTTP protocol, SSH, mounting on Grove Shield for GPIO, setting up basic client server interactions, etc

-Final Project focused on machine learning and using 9 DOF (Degrees of Freedom) sensor, with FANN (Fast artificial neural network) API to classify 3 types of motions. Link to project can be found in my personal website.

EE3 (Intro to EE) (project and report description on my website as well)

-Voltage Divider/Load, basic EE concepts (impedance, circuit analysis, OP AMPS)

-worked on a Final Project that used a car (Arduino controller) staying on top of a track (IR Sensors for electric tape), with halls effects sensor to detect magnets.

Leadership:

Vice President of Mu Alpha Theta Math Club June 2015-June 2016

-AMC math contest, Log competitions, and Rocket City Math League competitions

Volunteer Experience:

Circle K International UCLA **October 2016-Present**

Achievements:

Taiwanese American Scholarship Fund June 2016

McKinley Scholarship May 2016