

# JUSTIN CHANG

Phone: 626-318-2080 ■ Email: [jchang0916@ucla.edu](mailto:jchang0916@ucla.edu) github: <https://github.com/jchang12345>

LinkedIn: <https://www.linkedin.com/in/justin-c-961955aa/> Website: <http://termular.me/>

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, LOS ANGELES

**Objective:** Seeking a Summer 2018 opportunity (research or internship)!

**B.S., Electrical Engineering Major (Computer Specialization)**

**Expected Graduation: June 2020**

- **Cumulative GPA:** 3.85
- **Honors:** Dean's Honor List (Winter 2017), Tau Beta Pi Candidate (top 1/8 of Jr. class engineers) and Eta Kappa Nu Candidate (top 1/4 of Jr. class of EE CS engineering), Taiwanese American Scholarship Fund
- **Course Highlights:**
  - Data Structures and Algorithms (C++)
  - IoT, Server Clients, GPIO, HTTP basics
  - Intro to Electrical Engineering. Did PID, impedance, circuit analysis, OP AMPS
- **Activities:**
  - UCLA IEEE member
  - UCLA ACM (CS Club), created Hack on the Hill Website with a team.
  - Cal Hacks 3.0, created simple iOS apps using swift (github for more details)

**Current Relevant Coursework:**

- Software Organization
- Logic Design, Gates, CMOS, Verilog
- Making Neural Nets (Honors Seminar)

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## RELEVANT COMPUTER/PROJECTS/SKILLS

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### Physical Therapy Motion Tracker

- Team project, created a system that tracks how well a bicep curl, shoulder press, is done.
- Used Intel Edison, 9DoF Sensors, FANN (Fast artificial Neural Network) ML library to implement.
- Looked at gyroscopes, accelerometer, and projected values to obtain better data to train neural net.

### Ops/Micromouse

- Created a RODENT, Micromouse maze traversing robot, implemented with PID, Arduino Nano, H Bridge
- Experience with soldering, EAGLE CAD PCB design, Arduino IDE, Motors, DMM, Oscilloscopes

### Personal Website

- <http://termular.me/>, half CV/E-Portfolio, half just about me and what I'm up to.
- Javascript, HTML, CSS (used other javascript and styling libraries to enhance effects on website)

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## EXPERIENCE

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### RESEARCH ASSISTANT

**3/2017 to 6/2017**

#### Spinal Cord Injury Research Group at UCLA

- GPIO Raspberry Pi3 and Arduino interface help
- Looked over some C and C++ code (Object Oriented Programming Experience)

### UCLA CAMPUS JOB

**12/2016 to 4/2017**

#### Anderson School of Management

- Car Insurance Ad research, recorded data on consumer and company behavior
- Filled out forms and formed plots on company/consumer behavior changes over time.

### TUTOR

**10/2015 to 6/2016**

#### Tongva Tutor, Gabrileino High School

- Math tutor, subjects ranging from Algebra I to AP Calculus BC and AP Stats
- Physics tutor, subjects ranging from AP Physics 1 to AP Physics C (Mech and Electricity/Magnetism)

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## LEADERSHIP/VOLUNTEERING ACTIVITIES

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### High School Math Club Vice President

**6/2015 to 6/2016**

- Managed AMC (American Math Competition)
- Managed RCML (Rocket City Math League) and Log Tests (Math competitions)

### Circle K International

- Joined CKI UCLA, general member volunteering in the community.

**10/2016 to Present**