JUSTIN CHANG

Phone:626-318-2080 ■ Email: jchang0916@ucla.edu github: https://github.com/jchang12345
LinkedIn: https://www.linkedin.com/in/justin-c-961955aa/ Website: http://termular.me/

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES

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

B.S., Electrical Engineering Major (Computer Engineering) **Expected Graduation: June 2020**

- **Cumulative GPA:** 3.83
- **Honors:** Dean's Honor List (Winter 2017), Tau Beta Pi Candidate (top 1/8 of Jr. class engineers) and Eta Kappa Nu Candidate (top ¼ 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, impedence, circuit analysis, OP AMPS
  - Logic Design, CMOS, Verilog, FPGA
  - Software Organization Computer Architecture

Current Relevant Coursework:
- Circuits Theory and Lab
- Systems and Signals

Future Relevant Coursework:
- Algorithms and Complexity
- Circuit Theory and Lab 2
- Computer Networks Physical Layer

Activities:
- UCLA IEEE member, General Board member
- UCLA HKN Workshop Officer, hold workshops on Matlab and Verilog.
- Cal Hacks 3.0, created simple iOS apps using swift (github for more details)

RELEVANT COMPUTER/PROJECTS/SKILLS

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.

Micromouse/OPS
- 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)

Morse Code Decoder
- From scratch, created a neural network to decode an input of "short", "long", and letter gaps to a letter.
- Used Verilog, FPGA to synthesize on basys3 hardware, and created modules from simple logic gates.

Skills (coding)
- C++,Java, C, Matlab, Javascript, HTML, Verilog, Swift, C# **(at least some form of familiarity)**

EXPERIENCE

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.

LEADERSHIP/VOLUNTEERING ACTIVITIES

Circle K International
- Joined CKI UCLA, general member volunteering in the community. **10/2016 to Present**