

Justin Le

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RESEARCH

CALIFORNIA PLUG LOAD RESEARCH CENTER

UNDERGRADUATE RESEARCHER

Jan 2018 – Present | Irvine, CA

- Test, demonstrate and develop wired and wireless control systems for managing energy consumption of plug load devices in residential and commercial settings.
- Working on implementation of an ESP-WROOM 32 embedded system that uses RTOS, I2C and SPI protocols to create an IOT device.

PROJECTS

THALES PROJECT ARDUINO - SCOUT CAR

Oct 2017 – Present | Irvine, CA

- Worked on a team of 4 to create a custom built scout car that uses an Arduino Uno/ATMega328p and eye-tracking software.
- Specifically created and designed circuit schematics to support multiple components.
- Project was a semi-finalist in a University-wide competition.

MICROMOUSE

Jan 2018 – Present | Irvine, CA

- Designed a small robotic mouse that autonomously solves a 16'x16' maze with a team of 3 using software concepts such as PID Control, PWM, and path-finding algorithms.
- Designed a 2 layer through-hole build to reduce size and optimize space.
- Took 3rd place in the IEEE Region 6, Southern Area Student Design Competition.

ADDITIONAL EXPERIENCE

UCI SCHOOL OF ENGINEERING - DEAN'S OFFICE

LEAD STUDENT ASSISTANT

July 2017 – Present | Irvine, CA

- Work on data heavy projects using Microsoft Excel/VBA that require a meticulous attention to detail.
- Required to manage and train new student assistants.

EECS DEPT. - NETWORK ANALYSIS II

UNDERGRADUATE TUTOR

March 2017 – Present | Irvine, CA

- Tutoring Electrical and Computer Engineering students in Network Analysis.
- Also responsible for hosting and grading weekly quizzes for 50+ students.

UCI GUESTS AND EVENT SERVICES

PARKING ATTENDANT

Jan 2016 – May 2017 | Irvine, CA

- Campus job where I provided excellent customer service to 30+ UCI visitors per shift.

ENGINEERING STUDENT COUNCIL - EMF

STUDENT MENTOR

September 2017 – Present | Irvine, CA

- Part of "Engineers Mentoring the Future" - aimed at first-year engineering students.

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

BS IN COMPUTER ENGINEERING

Expected June 2019 | Irvine, CA

Cum. GPA: 3.283

Dean's List:

- Fall/Winter 2015-2016
- Winter 2018

COURSEWORK

UNDERGRADUATE

- Programming in C
- Object-Oriented Programming
- Data Structures and Algorithms
- Introduction to Data Management
- Discrete-Time Signals and Systems
- Organization of Digital Computers
- Computer Networks
- Electronics I/II
- Electronics and Network Analysis
- Digital Signal Processing

SKILLS

PROGRAMMING

- Java • C/C++ • Python
- SystemVerilog • SQL
- Mathematica • MySQL

SOFTWARE/PLATFORMS

- Eclipse • OrCAD Capture
- Git • EAGLE • PSpice

HARDWARE

- Arduino/ATMega328p
- Teensy32
- ESP-WROOM 32

FAMILIAR

- LaTeX • Linux • HTML/CSS
- Javascript • MQTT • Assembly
- I2C • SPI • UART • MATLAB

AFFILIATIONS

- Alpha Phi Omega - (National Service Fraternity)
- ACM@UCI - Association for Computing Machinery
- IEEE/Micromouse