

Justin Le

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RESEARCH

CALIFORNIA PLUG LOAD RESEARCH CENTER

UNDERGRADUATE RESEARCHER

Jan 2018 – Present | Irvine, CA

- Working on implementation of the ESP-WROOM-32 and ESP8266 in an embedded system that uses RTOS, I2C and SPI protocols to create an Internet of Things device.
- Building solution systems to work in conjunction with existing consumer products in order to control and manage their power consumption without human intervention.
- Tested, demonstrated and developed wired and wireless control systems for managing energy consumption of plug load devices in residential and commercial settings.

PROJECTS

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 modular 2 layer through-hole build to reduce size and optimize space.
- Took 3rd place in the IEEE Region 6, Southern Area Student Design Competition.

THALES PROJECT ARDUINO - SCOUT CAR

Oct 2017 – March 2018 | Irvine, CA

- Worked on a team of 4 to create a prototype remote-controlled scout car that uses an Arduino Uno, eye-tracking software and additional modules.
- Specifically created and designed circuit schematics to support multiple components.
- This project was a semi-finalist in a University-wide competition hosted by Thales.

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 while assisting the office manager in day-to-day tasks as needed.
- Required to manage and train new student assistants.

EECS DEPT. - NETWORK ANALYSIS II

UNDERGRADUATE TUTOR

March 2017 – Present | Irvine, CA

- Tutored Electrical and Computer Engineering students in a Network Analysis course focused on Op Amps and first/second order linear RLC circuits.
- Responsible for hosting and grading weekly quizzes for 50+ students.

ENGINEERING STUDENT COUNCIL - EMF

STUDENT MENTOR

September 2017 – March 2018 | Irvine, CA

- Part of a mentoring program, "Engineers Mentoring the Future" which is aimed at helping first-year engineering students in academics and community involvement.

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

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

SKILLS

PROGRAMMING

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

SOFTWARE/PLATFORMS

- Eclipse • OrCAD Capture
- Git • EAGLE • PSpice

HARDWARE

- Arduino
- Teensy32
- ESP-WROOM-32
- ESP8266

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