

# ENOCH CHAU

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## EDUCATION

### **UC Irvine**

Exp. Grad. June 2020

### **B.S. Electrical Engineering**

Electronic Circuit Design

3.43 GPA

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## EMPLOYMENT

### **Hardware Engineering Intern – In Service**

June '19 – Aug. '19

Panasonic Avionics Corporation, Lake Forest, CA

- Investigate hardware issues in Line-replaceable Units (LRU)
- Resolve component obsolescence in LRUs
- Complete FAA regulated ESD and Thermal tests

### **Research Assistant**

April '19 - Current

California Plug Load Research Center, UC Irvine

- Develop firmware for microcontrollers
- Assist in hardware design for energy efficiency focused electronic devices.
- Assist in electronics assembly.

### **Peer Academic Advisor**

March '18 - Current

Engineering Undergraduate Student Affairs, UC Irvine

- Create and present workshops on Engineering Student topics
- Advise a wide range of Engineering and prospective students
- Streamline office work by editing transcripts and scheduling appointments

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## PROJECTS

### **Rotronics HC2 IoT Humidity & Temperature Probe** *Consulting, individual*

Aug '19 – Current

- Develop Python scripts to interface Raspberry Pi with Rotronics HC2
- Develop Arduino Library for Rotronics HC2
- Create IoT solutions for Rotronics HC2

### **Projector Buddy** *Research, group*

April '19 – June '19

- A device that can reduce power consumption of projectors.
- Created a custom board with ESP32 microcontroller interfacing with various sensors
- Contribution: configuring power circuit, updating firmware, assisting in device assembly

### **Three Phase Watt-meter** *Research, group*

April '19 – June '19

- A custom 3-phase wattmeter board using ADE9078 to detect faults in 3 phase devices
- Developed Arduino library for ADE9078
- Contribution: Data processing visualization, Fast Fourier transform of data

### **Micro-Mouse Club & Competition** *individual*

Jan. '19 – May '19

- Created firmware to steer a robot "mouse" through a maze.
- Designed and soldered a circuit board.
- Created firmware to interface IR distance sensors with motors.

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## SKILLS

**Programming:** C, C++, Python, Bash

**Programs:** Linux, Git, Cadence, PSpice, Arduino, Processing 3, Mathematica, FL Studio

**Lab Tools:** Digital Multi-meter, Oscilloscope, Soldering, Smith Chart, Thermotron, ESD test equipment

**Languages:** Mandarin: *heritage speaker, some reading & writing*