ENOCH CHAU

Irvine, CA ● enoch965@gmail.com ● https://ec965.github.io/

EDUCATION

UC Irvine   Exp. Grad. June 2020
B.S. Electrical Engineering
Electronic Circuit Design
3.43 GPA

EMPLOYMENT

Consultant   Aug '19 – Current

- Develop Arduino Library for Rotronics HC2 temperature and humidity probe
- Develop Python scripting API for Rotronics HC2
- Develop IoT network including LoRa, WiFi, SMS, and Email

Research Assistant   Apr '19 - Current
California Plug Load Research Center, UC Irvine

- Develop firmware for ESP32 Microcontroller using Arduino IDE
- Assist in electronics assembly including soldering and SMD rework

Peer Academic Advisor   Mar '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

Hardware Engineering Intern – In Service   Jun '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, thermal, and power cycle tests

PROJECTS

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.

SKILLS

Programming: C, C++, Python, Bash

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

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

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