

ENOCH
CHAU



Irvine, CA
enoch965@gmail.com
ec965.github.io

Programming

- C
- C++
- Python
- Bash
- HTML

Programs

- Linux
- freeRTOS
- Git
- Cadence Virtuoso
- PSpice
- Arduino
- Mathematica

Lab Tools

- Oscilloscope
- Soldering
- Smith Chart
- Thermotron
- ESD test equipment

Human Language

- Chinese:
*heritage speaker,
some reading and
writing*

EDUCATION

B.S. Electrical Engineering: Electronic Circuit Design
UC Irvine: 3.43 GPA

Exp. Grad Jun '20

EXPERIENCE

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

- Develop firmware for IoT applications using MQTT and freeRTOS
- Debug hardware by creating tests for I2C, SPI, and serial components
- Electronics assembly: PCB population, soldering, & SMD rework

Peer Academic Advisor Mar '18 - Current
Engineering Undergraduate Student Affairs, UC Irvine

- Advise engineering students in curriculum planning
- Determine appropriate student referrals for specific campus resources
- Create workshops for Engineering career pathways & study abroad.

Hardware Engineering Intern 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

GPS Sound Sensor (UCI Senior Design) Sep '19 – Current

- Created firmware for Embedded Linux system (BeagleBoneBlack)
- Develop UART connection between GPS and device
- Implemented MQTT protocol between device and Android Application

Buddy Series (Calplug) Apr '19 – Current

- Implemented freeRTOS task scheduling for ESP32 firmware
- Assist in device assembly including soldering and SMD rework
- Debug hardware issues by creating test cases and tracing circuits

Scale Up (SD Hacks Hackathon) Oct '19

- Created threaded Python firmware
- Interfaced load cell and LCD with Raspberry Pi
- Used Google Cloud Vision with Pi Camera to capture food types

HC2: IoT Environment Sensor (Consulting) Aug '19 – Jan '20

- Develop Python API for Rotronics HC2 temperature probe
- Develop Arduino Library to interface with HC2
- Develop IoT network including LoRa, WiFi, and Email