

# Enoch Y. Chau

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## Education

**B.S. Electrical Engineering: Electronic Circuit Design** | UC Irvine, CA

Sep 2016 – Jun 2020

- GPA: 3.48/4

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## Experience

**Research Assistant** | California Plug Load Research Center, UC Irvine, CA

Apr 2019 – Jun 2020

- Developed and maintained IoT energy management systems.
- Managed and on-boarded new members by dividing work into specific tasks.
- Updated documentation and applied for grants.

**Peer Academic Advisor** | School of Engineering, UC Irvine, CA

Mar 2018 – Jun 2020

- Researched, organized, and presented workshops addressing Engineering student topics.
- Advised students in various engineering fields on curriculum planning and degree requirements.

**Hardware Engineering Intern** | Panasonic Avionics Corporation, Lake Forest, CA

Jun 2019 – Aug 2019

- Investigated hardware issues in avionics entertainment systems.
- Created reports to suggest replacements for obsolete components.
- Completed ESD, thermal, and power cycle tests per FAA regulations.

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## Projects

**Mechanical Numpad** (personal)

Dec 2020 - Current

- Designing and fabricating a mechanical numpad PCB and case.
- Implementing open source keyboard firmware.
- Creating a build guide.

**Boulder Field** (personal)

Jul 2020 – Aug 2020

- Suggests climbing routes by pulling data from the Mountain Project API.
- Designed an intuitive user interface using React.js and Material UI.

**GPS Sound Sensor** (UCI Senior Design)

Sep 2019 – Mar 2020

- Worked with a team of four to create a sound-based location sensor.
- Wirelessly connected the Android application UI with the location sensor.

**Buddy Projects** (California Plug Load Research Center)

Apr 2019 – Jun 2020

- Created RTOS firmware with Arduino to interface sensors (I2C, SPI, UART).
- Implement IoT using Wi-Fi connected ESP32 microcontrollers and MQTT protocol.
- Performed board debugging by using lab tools and writing test firmware.
- Populated, soldered, and reworked boards as needed.

**Poly-Phase Wattmeter** (California Plug Load Research Center)

Mar 2019 - Jun 2019

- A development board for the ADE9078 three phase wattmeter.
- Configured the waveform buffer and made FFT demo code.
- Created a demo UI to see FFT readings.

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## Skills

Programming: C, C++, Python, Rust, JavaScript

Web Dev: React.js, HTML, CSS

Firmware: freeRTOS, AVR (Arduino), ESP32/ESP8266, Raspberry Pi

Software Tools: Git, KiCAD, Excel VBA, Markdown, MS Office, Google Office

Lab Tools: Oscilloscope, Soldering (traditional and hot air), Digital Multimeter

OS: Linux, Windows

Language: Conversational Mandarin Chinese with some reading and writing