

Ichen Lee

📞 (503) 869 0453 • ✉️ ichen.lee@yahoo.com

Education

Oregon State University **September 2017 – June 2021**
Bachelor's in Electrical Computer Engineering (3.7 GPA)

Oregon State University **September 2017 – June 2021**
Bachelor's in Computer Science (3.7 GPA)

Projects

Radio and Alarm Clock **September 2020 – December 2020**

- An alarm and radio built on an Atmega128 microcontroller using interrupts
- Uses I2C to communicate to temperature sensor and radio module
- Audio output goes through an opamp then to speakers. Adjustable volume using encoders read through SPI
- Displays the radio frequency or time on a 4 digit 7 segment display depending on mode
- Alarm time and radio frequency is adjustable via encoders

Sumo Bot **November 2019 – March 2020**

- A 10x10 cm robot, built on an Arduino Uno, designed to push other robots out of a ring
- The robot has infrared front sensors, corner color sensors, and front button sensors
- The bot can be swapped between autonomous mode and Bluetooth controlled mode
- The bot is completely asynchronous so it can react instantaneously to sensor data

Audio Visualizer **October 2019 – November 2019**

- A small box that visualizes audio using an 8x8 grid on an Arduino Uno
- Uses a Fast Fourier transform library, a band-pass filter, and two audio jacks.

Weather Reporter **April 2018 – May 2018**

- A weather reporter built on an ESP8266
- Pulls data from weather APIs and displays it on a 2 digit 7 segment display

Achievements

Mathematics Award **June 2017**

- 7 out of 300+ students of the graduating class received this award

Extracurricular

Eta Kappa Nu Webmaster **September 2019 – September 2020**

- Update the website for events and opportunities
- Communicate with newsletter organizers for events Eta Kappa Nu is holding
- Design and hold elections for new officers

Tutor Volunteer **September 2019 – March 2021**

- Tutoring Electrical Computer Engineering and Computer Science

Work Experience

Teaching assistant **Sept 2018 – June 2019**

- Taught Electrical Computer Engineering fundamentals
- Taught in ECE111, ECE112, and ENGR201 at Oregon State University

Skills

Programming Experience

- C, C++, Python, Assembly, Java, SQL script, and Shell script

Applications and Tools Experience

- LTspice, Soldering, Oscilloscope, Git, GDB, and Linux/Unix

Languages

- Mandarin Chinese (Conversational)