KIERNAN CANAVAN

Electrical Engineer

(802) 558-1802 • KiernanLCanavan@gmail.com • linkedin.com/in/kiernan-canavan/

SUMMARY

Graduating senior at Oregon State University completing a B.S. in Electrical Engineering. Tech-savvy with great interpersonal and communication skills developed as an IT help-desk technician. Gained experience with integrating microcontrollers with custom PCB layouts through project work. Interested in semiconductor fabrication, as well as VLSI design of integrated circuits. Enthusiastic about vintage electronics and soldering projects.

EDUCATION

Oregon State University
B.S., Electrical & Computer Engineering
Corvallis, OR / 2018 - present
GPA 3.3

Vermont Technical College
A.E., Electrical Engineering
Randolph Center, VT / 2016 - 2018
GPA 3.6, Graduated Cum Laude

SKILLS

Software
Matlab, C, BASIC, Microsoft Office, KiCAD, EagleCAD, LTSPICE, HSPICE, MSDOS, VLSI, Arduino IDE

Hardware
Electric Design System, Oscilloscope, Digital Multimeter, Arduino, PCB Layout & Design

WORK EXPERIENCE

IT Helpdesk Technician
Oregon State University: CoSINe Help Desk   *Aug 2019 - present*
Answer user inquiries regarding computer software or hardware operation to resolve problems.

- Set up equipment for employee use; properly installing cables, operating systems, and appropriate software.
- Install and perform minor repairs to hardware, software, or peripheral equipment, following design or installation specifications.
- Refer major hardware or software problems or defective products to vendors or technicians for service.

House Manager
Sigma Nu: Delta Tau Chapter / Corvallis, OR   *April 2020 - Sept 2020*

- Negotiate lease between housing corporation and chapter.
- Maintain the property, repair appliances, and restock house supplies to preserve a livable environment.
- Enforcing COVID-19 rules and restrictions to ensure proper conduct and general health and safety.

PROJECTS

Hardware Designer
Know It's Off: Oven Light Detector / Corvallis, OR   *2020-2021*

- Designed compact PCB layout to hold ESP8266 WiFi microcontroller, light sensing, and power regulation circuitry.
- Designed microUSB charger module for single cell Lithium-Ion battery.
- Assembled and soldered PCB as well as made tests and modifications to achieve operation.
- Designed code to operate digital potentiometer for adjusting light sensing circuitry.

Project Lead
Longboard Speedometer / Randolph Center, VT   *2018*

- Worked on designing a circuit board centered around an Arduino Nano microcontroller.
- Wrote firmware for obtaining speed calculations from hall-effect sensor data then displaying speed to OLED display.
- Designed 3D printed enclosure for both processing and display modules as well as a mounting scheme for hall effect sensor.