

Miles Drake

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EDUCATION

Oregon State University (3.97 GPA)

Bachelor of Science in Electrical and Computer Engineering (In Progress)

Corvallis, OR

September 2018 – Present

Franklin High School (4.0 GPA)

High School Diploma

Portland, OR

September 2014 – June 2018

EXPERIENCE

Undergraduate Research Assistant

Oregon State University

Oct. 2019 – Present

Corvallis, OR

- Designed and built piezoelectric vibration sensors for a structural health monitoring system.
- Presented sensor project at Summer Undergraduate Research Symposium (SURS)

Audio Engineering Club - Treasurer

Oregon State University

Oct. 2018 – Present

Corvallis, OR

- Built audio related engineering projects like synthesizers, sound systems, guitar pedals.
- Kept track of income and expenses, purchased tools and project parts, requested funds from the university.
- Worked alongside club president to build club infrastructure and market to new members.

PROJECTS

Modular Synthesizer Low Frequency Oscillator | KiCAD

Jan. 2018 – May 2018

- Designed a low frequency oscillator circuit for a modular synthesizer from the NE555 Chip.
- Laid out and ordered PCB. Chose components and assembled.

Wah Guitar Pedal | KiCAD

Oct. 2019 – Jan. 2020

- Laid out and ordered a PCB from a wah pedal schematic.
- Chose and ordered components from digikey.
- Soldered PCB and assembled in enclosure.

Piezoelectric Vibration Sensor | Matlab, LTSpice

May 2018 – May 2020

- Learned about piezoelectric materials.
- Designed simulations for the vibration of piezoelectric materials in MATLAB
- Designed and constructed sensors.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS, MATLAB, SystemVerilog

Software: Matlab, KiCAD, LTSpice, Linux Terminal

REFERENCES

Available Upon Request