

Calder Wilson

wilscald@oregonstate.edu | 541-415-2858 | Corvallis, OR

EDUCATION

Oregon State University - Corvallis, OR

Expected Graduation: **Dec. 2021**

- Bachelors of Science: Electrical and Computer Engineering
- Minor: Computer Science
- Honors Scholar

GPA: 3.99

Coursework

CMOS Integrated Circuits

Transmission Lines

Electronic Materials & Devices

Power Electronics

Intro to Computer Networks

Electric Motors

Assembly Programming

Electric and Magnetic Fields

Signals & Systems

WORK EXPERIENCE

Undergraduate Researcher

Jul. 2019 - Present

Oregon State Sensors and Integrated Microelectronics Laboratory

- Design a solar powered, low power PCB with wireless communication for a sensor patch that is placed on wind turbine blades to detect bird and bat collisions
- Learn to use an Arduino, a low resistance measurement board, and design a MATLAB GUI
- Assemble a robotic hand to be used as a testing platform for stretchable resistors
- Present progress to research group at weekly meeting

Teaching Assistant

Jan. 2019 - Dec. 2020

School of Electrical and Computer Engineering OSU

- Instructed classes of 20 students by reviewing class materials and walking through example problems
- Led students through two hour labs on basic circuit construction and testing
- Taught students how to approach homework problems during weekly office hours
- Assessed and graded quizzes and lab reports and wrote constructive feedback

TECHNICAL SKILLS

- Software: KiCad, Cadence, Xpedition, LTspice, MATLAB
- Tools: Soldering Iron, Oscilloscope, DMM, Arduino
- Familiar Languages: C, C++, Python

ADDITIONAL EXPERIENCE

Project Team Member

Sept. 2020 - Present

Senior Capstone Project in partnership with Tektronix

- Design schematic and layout for sensing circuit in an oscilloscope overload detection system

Cambodia Program Coordinator

Sept. 2017 - Present

Engineers Without Borders OSU

- Managed a group of 25 engineering students from 8 disciplines by leading weekly meetings
- Coordinated completion of 30 page plan to serve over 200 people in O'rana, Cambodia by delegating tasks and keeping track of deadlines
- Communicated with club mentors and community of O'rana through emails and conference calls

Member - COE Leadership Academy

Sept. 2017 - Present

Trombone Player - Oregon State University Marching Band

Sept. 2017 - Dec. 2019