

Kenton Bender

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Education

McNeil High School, Austin, Texas

Graduated Spring 2018

Oregon State University, Corvallis, Oregon

Bachelors of Science in Electrical and Computer Engineering (ECE)

Expected Graduation Spring 2022

Work Experience Materials Management Crew Member

OSUsed, Corvallis, OR

January 2019 – Present

Responsibilities:

- Maintain and repair surplus computers
- Prepare computers for sale
- List lots online for auction
- Pick up surplus items
- Sort university recyclables

Projects

Audio Circuit Design

- Partner project
- Worked with LTSpice to design audio filters
- Prototype implemented on breadboard
- Final design soldered to create three-speaker output, taking input from 3.5mm jack

Digital Logic Design on a Field-Programmable Gate Array (FPGA)

- Team of three
- Worked with Altera Quartus and SystemVerilog
- Designed a device to take three inputs using different signals
- Process signals, output to five devices using unique signals
- Simulated in Modelsim

Junior Design Accelerated Project

- Team of three
- Worked to design a circuit to identify musical notes
- Design implemented with custom Power Supply and Arduino Uno
- Process signals, identify, display on LED output
- Code done in Arduino, visualization in MATLAB

Junior Design SpyderCam Project

- Team of four
- Design a system to move a payload suspended by wires
- Draw lines using G code
- Use computer vision to draw images and also measure lines
- Custom PCB solution for motor controls.

Skills

Software: LTSpice, Altera Quartus, Modelsim, Autodesk Inventor, VIM

Languages: SystemVerilog, C++, C, MATLAB

Tools: Soldering iron, Oscilloscope, Digital Multimeter, Function Generator

Leadership

Flight Commander, McNeil HS AFJROTC

August 2017 – May 2018