

EDUCATION

Oregon State University - Corvallis, OR

2014 - 2018

B.S. in Electrical and Computer Engineering
Minor in Computer Science
Overall GPA: 3.3

EXPERIENCE

HP Inc.

June 2018 - Present

Brand Authentication Engineering Intern

Corvallis, OR

- Developed binary mapping and conversion software for internal company use in the creation of secure print cartridges
- Oversaw the development of Excel templates by other interns
- Tested customer facing software for legal and business compliance

Oregon State University College of Business

February 2015 - June 2018

Student Support Technician 2

Corvallis, OR

- Maintaining technologies throughout the College of Business including computers, printers, projectors, room notification panels and systems, and servers
- Working directly with faculty and students to solve information services related issues

RELEVANT CLASSWORK

- Transmission Lines - Transient and steady-state analysis of transmission line circuits
- Sensors - Sensor technologies including materials, physics of operation, applications and system integration
- Digital Logic Design - Data Types, Boolean Algebra, State Machines, Computer Arithmetic
- CMOS Integrated Circuits - Design of IC's in CMOS culminating in OPAMP design project
- Computer Organization and Assembly Language - Introduction to Assembly Language, Computer Architecture
- Microcontroller System Design - Implementation of embedded systems focusing on development hardware and communications protocols
- Data Structures - Implementation of Abstract Data Types, Dynamic Arrays, Linked Lists, Search Trees

SKILLS

- Programming Languages: C, C++, Java, Python, VHDL, Verilog, AVR Assembly, Latex, mySQL
- Software: Atmel Studio, Eagle, Git, LTSpice, AutoDesk Inventor, Microsoft Office, Microsoft Project
- Operating Systems: Linux, Windows, OSX, BSD

PROJECTS

- Switching Regulated 3.3/5V Power Distribution Board
- Lab Bench Variable Power Supply
- AVR Powered Mathematical Alarm Clock
- BJT Based Stereo Audio Amplifier

VOLUNTEER WORK

Justin Siena Robotics Institute

June 2014 - July 2014, June 2015- July 2015

Co-lead Volunteer

Napa, CA

- Train fellow volunteers in designing, building and programming robots using the Vex Robotics Kit
- Assisting students in design, construction, and testing of robots
- Design and construction of obstacle courses and challenges to be performed by students
- Writing base code in RobotC to be used by students to implement additional sensors into robot designs

AFFILIATIONS AND ACCOMPLISHMENTS

- Licensed Amateur Radio Operator, Technician Class KMECE
- Treasurer for the OSU Amateur Radio Club W7OSU
- Member of Oregon State Robotics Club Aerial Team
- Member of Oregon State Linux Users Group