Vladimir Vesely

(503) 776 0251 – veselyv@oregonstate.edu

EDUCATION

Bachelor of Science, Electrical Engineering Expect. 2020

Oregon State University: Cumulative GPA 3.70

Associate of Science 2015-2017

Portland Community College

Early College High School program - Graduated with highest honors.

Relevant Classes

- ECE 416 & 417 - Materials and Devices
- ECE 522 & 523 - CMOS
- ECE 473 Microcontroller System Design

NOTABLE PROJECTS

Coded Data Transmission and Display for Sap Flow Measurement Capstone

- Coded Feather M0 to communicate with server via Ethernet & HTTP Requests
- Used PDO PHP to handle MySQL database requests and modification
- Created website for sap flow data display using asynchronous Javascript, HTML, and chart.js

Wrote Cellular Interface Libraries for Electric Fence Monitoring System

- Programmed ESP-32 micro-controller to control cellular module using AT commands via UART
- Programmed Linux-based server to control cellular module using AT commands via USB

Designed Power Supply for Electric Fence Monitoring System

- Chose topology, selected parts, and laid out PCB using KICAD
- Wrote test procedure and verified device operation via oscilloscope
- Designed a filter targeting high frequency switching noise to isolate analog power line

Designed Processor for ECE 271

- Researched processor architectures, Verilog standards, verification software
- Created and implemented 8 command Instruction Set Architecture in Verilog

WORK EXPERIENCE

Building Technologies Engineering Intern Summer 2019

Siemens

- Debugged HVAC PID controller hardware
- Wrote python scripts to automate documentation and panel debugging

Academic Learning Assistant (ALA) 2018-2020

Oregon State University

- Student-Staff position helping students learn how to learn through thoughtful individual conversations, presentations, and passive educational programming
- Met ALA yearly helping interaction targets within 5 weeks in dorm of 550 engineering students

SKILLS

Programming Experience	C++, C, AVR Assembly, Bash, Python, Matlab, Javascript, PHP
Hardware	Soldering, PCB Design, Oscilloscope Usage
Circuit & Device Simulation	Cadence Virtuoso, LTspice, HSPICE, Atlas TCAD