Wilson Rose

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EDUCATION

Oregon State University, Corvallis, Oregon Enrolled: Sep 2021 — Expected: March 2025
Computer Engineering Overall GPA: 3.67 — Major GPA 3.79

EXPERIENCE

City of La Grande: La Grande, Oregon *Road Crew* July 2023 - August 2023

- This job required one to be able to work as a coherent team, self manage, as well as be committed to a project even when it was very difficult. When the crew was paving roads everyone would have their responsibility and would have to do their job well otherwise it would slow down the progress of the team. A new person had to learn quickly to be able to join in this crew. This job also had other projects other than paving roads and most of them require an individual to be able to manage themselves well. One such job was fixing potholes. This involved taking a company truck and going out without a manger of supervisor and finding and fixing potholes under the constraint of time.

Semi Conductor Fabrication Club: Corvallis, Oregon *Club Member* April 2023 – Ongoing

- This is a new club that I am a member of. We are taking the first steps to be able to be able to apply a photoresist to a silicon wafer and then dope the wafer to produce a simple transistor. The goal will be to eventually be able to produce a smaller integrated circuit. .

Oregon State Robotics Club: Corvallis, Oregon *Club Member* October 2023 – Ongoing

- The goal of this club was to inspire people to develop their engineering skills. When participating in meetings projects will be completed that require the process of designing, implementing, and testing a project. These are skills that will be useful for any engineer.

PROJECTS

FPGA Driven Random Dice Simulator Corvallis, Oregon December 2022 • Three students collaborated on developing a random number generator using a logic circuit on an FPGA, designing, testing, and implementing modular circuits through abstraction to manage complexity. Tasks were divided based on individual strengths, enabling each member to contribute effectively. My focus included designing logical blocks for counters and comparators, alongside testing and debugging the system. A video presentation was produced and uploaded to YouTube by Noah Tornell. *Link: https://www.youtube.com/watch?v=0Pj9haz3Bx0*

Rechargeable Bluetooth Enabled AIAA Accelerometer Corvallis, Oregon December 2023 • The project began with customer specifications and underwent a ten-week development phase, during which time constraints and budget management were crucial. Progress was monitored through milestones, with documentation and functionality tests presented regularly. My responsibilities included developing Python Bluetooth receiver scripts and implementing a rechargeable battery system. The finished device is presented on the OSU Showcase Website *Link: https://eecs.engineering.oregonstate.edu/project-showcase/profile/?id=6l0oyAaTDbMrnopE*

SKILLS

Relevant Coursework:

- Introduction to Computer Science in C++
- Data Structure in C
- Digital Logic Design

Languages:

- C
- C++
- AVR Assembly
- System Verilog
- Linux
- Python

References

- Julia Roundtree

Assistant Manager
(541) 550 0310

- Ryan Tsiatsos

Supervisor
(541) 786 3317