

Education

Oregon State University

Sept. 2022 - Jun. 2026

- BSc, Major: Electrical And Computer Engineering
 - Relevant Completed Coursework:
Data Structures, Linear Algebra, Discrete Math, Vector Calculus, ENGR 201-203, PH 211-213, CH 231-233, CH 331-332

McMinnville High School

Sept. 2018 - Jun. 2022

- Honors Diploma, Valedictorian

Skills

Computer Languages: C, C++, ROBOTC, Arudino IDE

Computer Applications: Autodesk Inventor, Adobe Premiere Pro, Adobe Photoshop, Adobe After Effects, Adobe Illustrator, Multisim, Quaurtus, Modelsim, KiCad

Physical Skills: Mig Welding, SMAW Welding, Oxy-Acetylene Welding, Soldering

Projects

Industrial Styrofoam Processor

- Led a team to develop a machine made to process Styrofoam at an industrial scale
- Used a system of rotating blades to chop Styrofoam into specified pieces for further processing
- For power, an electrical relay system with a 277 / 480V three-phase power supply ran an industrial-grade motor, the controls, and the emergency stop switch
- Built for Recology (Western Oregon Waste) according to their specifications

Distance Sensor

- Constructed an ESP-32-based distance sensor running on a 9V battery
- Sensor output to LCD up to 8.9 meters away with a margin of error of 0.1m
- Used a 5V linear regulator to produce an output of 5V to the ESP-32

Irrigation System

- Designed an irrigation system using Arduino Uno powered by a 9V battery
- Uses a system of relays and solenoids to put the amount of water needed for the time needed at the correct time of day
- Designed to be portable and adjustable

Volunteer Work

Willamette Valley Medical Center

Summer 2023

- Improved accessibility to distributable goods