

Tyler Robertson

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Personal Profile

An undergraduate student at Oregon State University, pursuing a degree in Electrical/Computer Engineering. Passionate about working hands-on with electronics and hardware. Primarily looking for engaging roles in improving renewable energy system distribution, but open to all opportunities.

Education

Oregon State University

Corvallis, Oregon

BS in Electrical/Computer Engineering

Sept 2020 - Current

- 4.00 GPA
- Current Presidential Scholar
- **Key Courses:** Data Structures, Electrical Fundamentals, Electronics, Signals and Systems, Junior Design, Digital Logic Design, Vector Calculus, Technical Writing, Climate Justice

Aloha High School

Aloha, Oregon

High School

Sept 2016 - June 2020

- Graduated with Honors as a National AP Scholar
- 4.43 GPA - Specialized in AP Physics, AP Chemistry, and AP Calculus

Work Experience

Creekside Village Retirement Residence

Beaverton, Oregon

Dining Room Server

Aug 2019 - Present

- Manages multiple tables in a large dining room simultaneously, providing consistent, efficient, and restaurant-like service to residents.
- Routinely performs cleaning, restocking, and maintenance to ensure proper organization and sanitation.
- Practiced strict COVID-19 safety protocols, balancing health/safety and service to residents effectively. Upholding ongoing protocols for resident health.

University Projects

OSU Robotics Club - Mars Rover Project

Corvallis, Oregon

Oregon State University

Nov 2021 - Present

- Collaborating in a five-person Electrical sub-team to rewire the OSURC Mars Rover main arm, within a strict time frame. Prioritizing forearm, elbow, and shoulder sections.
- Studying existing arm wiring structure, utilizing a DMM to continuity test each wire to find faults. Redesigning internal layout to relieve tension and add mobility. Soldering new cables and installing Techflex and Heat Shrink to minimize contact.
- Logging planned and completed changes, and cable functionality, within each arm section in a well-organized manner.

Happy Little Timer (Junior Design Custom Timer)

Corvallis, Oregon

Oregon State University

Jan 2023 - Mar 2023

- Collaborated with a partner to develop an accurate, safe, intuitive custom timer suitable for hard-of-hearing users.
- Utilized LightBurn to laser cut exact User Interface dimensions. Designed a custom PCB using Altium CircuitMaker. Programmed an Arduino Uno R3 for central processing of inputs/outputs using Arduino IDE.
- Documented project development and drafted hand-drawn schematics in a presentable, formal report.
- [System Verification Document](#)

Skills

Programming	Linux Terminals (Visual Studio Code, MobaXTerm), C/C++, SystemVerilog, Overleaf.
Software	LightBurn/Laser Cutting, LTSpice/NGSpice, FPGA Design (Quartus Lite, ModelSim), Microsoft Office (Word, Excel, PowerPoint).
Tools	Soldering Iron, Wiring Tools, Oscilloscope, Function Generator, Digital Multimeter, Crimping Tools
Soft Skills	Time/Workload Management, Project Management, Collaboration, Documentation, Schematic Drafting, Professional Writing, Workplace Safety.

References available upon request.