
MARSHALL SALTZ

[HTTPS://LSALTZ.GITHUB.IO/](https://lsaltz.github.io/)

OBJECTIVE

Seeking an internship or job to which I can apply my unique skillset

CONTACT

[REDACTED]

SKILLS

Electrical: Schematics, LTSpice, FPGA, Quartus Prime, Verilog, Electronics prototyping, Soldering

Mechanical: Fusion360, Power tools, Assembly, Hand tools, 3D Printing

Software: C++, C, Python, Ubuntu, PyBullet, OpenCV, Matplotlib

Other: Musical Composition and Performance, Multimedia Art, Creative Writing, Microsoft Excel

EDUCATION

OREGON STATE UNIVERSITY

HONORS BACHELOR OF ELECTRICAL AND COMPUTER ENGINEERING
MINOR: COMPUTER SCIENCE

FALL 2021-SPRING 2025

GPA: 3.18

Completed coursework in Differential Equations, Matrix Algebra, Algorithms, Digital Logic, and Circuit Analysis

EXPERIENCE

SERVICE DESK TECHNICIAN

Oregon State University

November 2021 – June 2022; November 2022 – Current

Assisted the college community with troubleshooting technical problems over the phone; Now builds and images a variety of computers

COMMUNITY COLLEGE TEACHING ASSISTANT

Front Range Community College

August 2020 – May 2021

Tutored students in C++ and computer programming concepts

OTHER EXPERIENCE AND ACHIEVEMENTS

- Robotics Lab Researcher (January 2022 – Current)
 - Engineering Student Council (March 2022 – Current)
 - Poetry Published in Prism Magazine (2022)
 - All-USA Academic Team Scholarship Nomination (2021)
 - Computer Science Club President (August 2020-May 2021)
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RELEVANT PROJECTS

Evolutionary Algorithm with PyBullet Simulation

Ongoing thesis project using PyBullet on an Ubuntu distribution to generate a robotic gripper design via an evolutionary algorithm.

Stair Climbing Robot

Ongoing robotics project using Fusion360 to design a 3D printed rocker-bogie robot to autonomously climb stairs using a Raspberry Pi and two Arduino boards to read data from the motors and an ultrasonic sensor.

Follow-Me Robot Vehicle

Ongoing robotics project using Fusion360 to design a robotic vehicle that detects and tracks a person, adjusting its movements according to their distance. Uses OpenCV and a Jetson Nano.