MARSHALL SALTZ

HTTPS://LSALTZ.GITHUB.IO/

OBJECTIVE

Seeking a part-time internship or job to which I can apply my unique skillset

CONTACT

[REDACTED]

SKILLS

Electrical: Schematics, Electronics prototyping, Soldering

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

Software: C++, Python, Ubuntu Linux, Simulations, Computer Vision, ROS2

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

EDUCATION

OREGON STATE UNIVERSITY
HONORS BACHELOR OF ELECTRICAL AND COMPUTER ENGINEERING
MINOR: COMPUTER SCIENCE
FALL 2021-SPRING 2025

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

EXPERIENCE

AGAID INTERN
Oregon State University
June 2023–August 2023
Using RGB and depth data to generate 3D models of trees for use in a simulation to train a robotic pruning system

SERVICE DESK TECHNICIAN
Oregon State University
November 2021–June 2022; November 2022–Current
Assisting the over forty thousand students and employees of OSU with troubleshooting technical problems in addition to imaging computers for the Oregon State Community

OTHER EXPERIENCE AND ACHIEVEMENTS

- Completed Google Foobar Challenge (September 2023)
- Robotics Lab Researcher (January 2022 – Current)
- Engineering Student Council (March 2022 – May 2023)
- Poetry Published in Prism Magazine (2022)
- All-USA Academic Team Scholarship Nomination (2021)
- Computer Science Club President (August 2020-May 2021)

RELEVANT PROJECTS

Modeling Trees in 3D From RGB D Data
Completed internship project using Python, OpenCV, Blender, and Ubuntu 22.04 to model trees from RGB D data from an Azure Kinect by fitting Bezier curves to the branches.

Follow-Me Robot Vehicle
Completed 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.

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