

Ian Spehar, EI

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Education

Oregon State University, Corvallis

M.S. in Mechanical Engineering, Robotics Minor

Expected Grad Date: June 2026

B.S. in Mechanical Engineering, Spanish Minor

Fall 2020 - June 2024

University of Salamanca, Salamanca, Spain

Study Abroad, Spanish Language and Culture Studies

September - December 2023

Experience

Automatic Rocket Tracker Team

January - July 2024

Team Lead

- Initiated and led the design and development of a fully functional automated antenna tracking system, designed to improve recovery procedures for the OSU High Altitude Rocket Team
- Engineered and implemented advanced Arduino control algorithm to achieve optimized tracking automation

OSU Mars Rover Team

September 2024 - Present

Software Engineer

- Develop autonomous navigation algorithms for the rover, enabling obstacle detection, path planning, and real-time decision-making
- Integrate ROS-based programs to coordinate sensor data, decision-making processes, and hardware actuation

Oregon State University IT

August 2021 - Present

IT Technician

- Resolve technical issues for 20+ customers weekly, ensuring efficient support for Macs and PCs
- Deliver exceptional customer service to faculty and students
- Train 10+ employees per term to support IT program development

Projects

RC Car Personal Project

- Designed and built an RC car from scratch, utilizing a Raspberry Pi for control and automation
- Designed and manufactured the car's chassis and steering mechanism, creating a custom solution for precise control and durability

Skills

Programming/Software: Python, ROS, C++, Linux, Matlab

Engineering Tools: SolidWorks, COMSOL, EES, Excel

Certifications

Engineering Intern, State of Oregon

Passed Fundamentals of Engineering Exam, Mechanical, September 2024

Activities

OSU Tau Beta Pi Chapter (Engineering Honors Society)

May 2022 - Present