

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

Graduated June 2024

University of Salamanca, Salamanca, Spain

Study Abroad, Spanish Language and Culture Studies

September - December 2023

Experience

Automatic Rocket Tracker

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 software to achieve optimized tracking automation

Plasma, Energy, and Space Propulsion Lab

April 2023 - Present

Graduate Researcher

- Conduct computational lab work for the Wirz Research Group at Oregon State University
- Specialize in modeling gas dynamics for a cold atmospheric plasma jet using COMSOL software
- Apply computational fluid dynamics to convert known values into parameters for computer modeling, aiming to improve experimental methods

Oregon State University IT

August 2021 - Present

IT Technician

- Helped over 20 customers per week by using technical problem solving to fix various computer issues
- Provided excellent customer service and technical assistance to professors and students on both Macs and PCs in an efficient manner
- Conducted personal training of 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.
- Developed and implemented all software, including code for motor control, sensor integration, and wireless communication.
- Designed and manufactured the car's chassis and steering mechanism, creating a custom solution for precise control and durability.

Skills

Software: Proficient in Python, Arduino IDE, MATLAB, SolidWorks, COMSOL, EES, Excel

Certifications

Engineer Intern, State of Oregon

Passed Fundamentals of Engineering Exam, Mechanical, September 2024

Activities

OSU Tau Beta Pi Chapter (Engineering Honors Society)

May 2022 - Present