

QUINCY SPURLOCK

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EDUCATION

B.S. in Mechanical Engineering Fall 2022 - Spring 2026
Oregon State University, Corvallis, OR

Coursework: Control systems, thermo/fluids, and space systems (Rocket propulsion, orbital mechanics, solar arrays). Presented a detailed review of the UH-60 Helicopter's autopilot control laws.

Languages: Python, C++, R, MATLAB/Simulink

Technical Skills: Siemens NX, Onshape, ANSYS, Arduino (Hardware/IDE), Soldering, Fiberglass

Leadership: OSU Men's Rugby Club: Grant Patton Award 24/25, 'Outstanding First Year Player'. OSU/UO Sailing Club: 2022 NWICSA - 'Most Improved Sailor.'

Instrument Rated Private Pilot May 2020, October 2023
Pegasus Aviation Center, Corvallis, OR

- 190+ flight hours; Private certificate earned in 2020 in high school; Instrument rating earned in 2023 as an engineering student.
- Experience in C172, Piper Warrior/Saratoga, RV-9/10. Learned and operated advanced avionics (Garmin/Dynon), diagnosing complex system behavior and adapting to various flight scenarios.

WORK EXPERIENCE

Undergraduate Learning Assistant (Physics 211/12/13) Sep. 2024 - Present
Oregon State University, College of Science, Corvallis, OR (Part-time)

- Facilitate weekly problem-solving sessions for 20-30 students, answering questions and providing guidance to improve their conceptual and applied understanding of fundamental physics topics.
- Translate technical math/physics concepts into clear, actionable explanations

Aircraft Technician Sep. 2021 - Present
Cascade Aircrafters, Eugene, OR (Part-time)

- Utilize my academic experience to perform detailed assembly and integration of experimental aircraft structures (fuselage, empennage, control surfaces) alongside a small team of experienced craftsmen.
- Execute fabrication processes, such as fiberglass layup, to meet precise alignment and safety requirements.

Undergraduate Research Assistant June 2025 - Sep. 2025
Oregon State University, College of Ag. Sciences, Corvallis, OR (Internship)

- Independently formulated solutions for calibration and documentation workflows, integrating sensor systems and unforeseen technical challenges.
- Installed and fabricated key parts within the electromechanical system (Arduino), responsible for testing and data collection.

PROJECTS

OSU SAE Baja, Master Cylinder Redesign and Manufacture Jan. 2026 - Present

- Validated the previously designed custom master cylinder CAD model through ANSYS simulations and hand calculations. In progress of manufacturing the custom master cylinder using a mill and a lathe.
- Aiming for the prototype to achieve higher pressure without brake fluid leakage than the standard on pressure tests.