

Josh Sorenson

(331) 218-8695 • joshua.r.sorenson@gmail.com • www.linkedin.com/in/Josh-Sorenson

EXPERIENCE

Hybird Space Systems

Huntsville, AL

Propulsion Engineer Intern

January 2025 – Present

- Perform hybrid rocket motor calculations to aid in the development of flight systems
- Design and build a rocket motor test stand capable of hot firing 10,000 lbf flight units
- Perform structural calculations to ensure test stand meets load capacity requirements
- Machine GSE and flight hardware using mill, lathe, four-axis CNC machine
- Navigate CUI, EAR, and ITAR regulations in partnership with defense and federal agencies

Utah State University Propulsion Research Laboratory

Logan, UT

Graduate Research Assistant

May 2024 – Present

- Develop a method for using a hybrid rocket as a high-enthalpy gas generator to simulate hypersonic conditions (thesis research project)
- Assemble safe plumbing including valves, regulators, tubing, and sensors for test stands
- Assist in validation and initial hot fires for new motors and equipment
- Support testing and development of other lab programs and student thesis research projects
- Design motor components and machine them using lathe and mill for use in testing

Space Dynamics Laboratory

Logan, UT

Propulsion Engineering Assistant / Engineering Assistant

November 2022 – December 2025

- Distilled and handled high-test hydrogen peroxide for use in catalyst testing
- Created test procedures for catalyst and thruster throughput testing
- Worked in a team to develop a metal additive manufactured tank to house propellant for small satellites
- Conducted trade studies to determine best method for closure of AM propellant tank (welding, brazing, etc.)
- Supported multiple IR&D projects to progress internal technology
- Assisted in development of critical spaceflight hardware
- Performed various tests and created reports for thermal straps including mechanical and thermal to customer specification
- Coordinated work between engineering, QA, machine shop, and contamination control
- Navigated to AS9100 and ISO9001 standards with document management and daily practices

EDUCATION

Utah State University, College of Engineering

Logan, UT

Master of Science, Aerospace Engineering

May 2026

- Key courses: Optimal Spacecraft Guidance, Combustion, Propulsion II, Fluid Dynamics
- Financed education by working 30+ hours a week
- Researcher of the Year Candidate

Utah State University, College of Engineering

Logan, UT

Bachelor of Science, Mechanical Engineering, Aerospace Emphasis

May 2025

- Institutional GPA: 3.80
- Magna Cum Laude Award
- Key courses: Compressible Fluids, Propulsion I, Dynamics of Spaceflight

SKILLS/INTERESTS

- MATLAB, C, Python, LabVIEW, MathCAD, Fusion 360, Solid Works, Solid Edge, Onshape, DfAM, MIG Welding, TIG Welding, Lathe, Mill, Soldering
- Proficient in Portuguese
- Born in Frankfurt, Germany