

Shea Schmidt

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EDUCATION

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY (Prescott, AZ) -- ABET-Accredited Aerospace Program

B.S. Aerospace Engineering - Astronautics, in progress

Expected 12/2025

LUTHERAN HIGH SCHOOL (Parker, CO) - Valedictorian Graduation Speaker

High School Diploma

GPA: 4.8/4.0

PROFESSIONAL EXPERIENCE

DECENTRALIZED FINANCE STARTUP (Cheyenne, WY)

5/2020 to Present

Co-Founder and Lead Programmer

LLC. scheduled for 2023, pending approved paperwork in state of Wyoming.

Active role in leadership and front-line operational and logistical day-to-day management of programming and financial theory. Cooperation between SpaceX liaison and student colleague.

Contributions:

- ♦ Executed manufacture and implementation of testing cases into a collaborative programming environment that included iteratively designed security features and debugging statements.
- ♦ Created spreadsheet-based records of back-tested stimulus and response to create a statistical performance breakdown of Return on Investment and daily adjusted Minimum Acceptable Rates of Return.
- ♦ Transitioning startup into live trading and conversion into a Decentralized Autonomous Organization under a non-specific Web 3.0 protocol and token.

ROCKET DEVELOPMENT LABORATORY - SOLID PROPULSION TEAM (Prescott, AZ)

6/2022 to Present

Aerostructures and Propulsion Team Member

Team member and undergraduate engineer on the Embry-Riddle Eagle Space Propulsion Solids Team.

Contributions:

- ♦ Participating in the designing, testing, and manufacturing of the university competition flight vehicle suited for the 2024 Intercollegiate Rocket Engineering Competition - Spaceport America World Cup.
- ♦ Responsible for the design and manufacture of data acquisition cable to provide telemetry uplink from test stand to data collection computer.
- ♦ Exploring benefits of in-flight scientific payload capable of monitoring live vibrational data from aeroframe sub-structure.

STEM ACADEMY SENIOR CAPSTONE - LUTHERN HIGH SCHOOL (Parker, CO)

8/2020 to 5/2022

Kerosene - Hydrogen Peroxide Liquid Motor Design Project

Planned, designed, attempted manufacture, and presented a theoretical hydrogen peroxide - kerosene liquid rocket motor.

- ♦ Interviewed five outside mentors and industry experts to cooperatively advance research, collaboration, and presentation on sections of project. Presentation preparation included digital and deliverable preparation.
- ♦ Applied empirical data from historical sources on kerosene and hydrogen peroxide performance metrics.
- ♦ Delivered a forty-five-minute speech and presentation detailing design and specifications of motor to peer-audience.

SKILLS & EXTRA-CURRICULARS

- MATLAB, Python, Java, and JavaScript
- Team-Based Project Management and Budget Keeping
- Technician Class Amateur Radio License (KF0KSN)
- Welding and Metalworking
- Society of Physics Students
- Statistical Data Analysis in Excel