# Shea M. Schmidt

sheaschmidt@outlook.com
sheaschmidt.github.io

## OBJECTIVE

Entrepreneur & Aerospace Engineer with active security clearance and 3+ years of experience in small business senior executive leadership, seeking engineering roles.

## EXPERIENCE

Summer 2024

**Intern Aerospace Engineer – Northrop Grumman**

• Hired to participate in cleared intern-level engineering position in Palmdale, CA.

2020 - Present

**Chief Information Officer – No Entry LLC.**

• Primary authority over the evaluation and resolution of the scientific and technological issues within the organization.

2023 - Present

**Undergraduate Researcher – Air Domain Phenomenological Laboratory**

• Conducting research on design and construction of a multiple sensor observatory platform for study of aerial phenomena. Looking to secure funding for Spring 2024.

2023 - Present

**Teaching Assistant and Tutor – Embry-Riddle Aeronautical University**

• Responsible for assisting lecture on MA241 – Calculus and Analytical Geometry I as well as tutoring for all mathematics courses up to and including Differential Equations.

2022 - Present

**Solid Rocket Propulsion Engineer – Rocket Development Laboratory**

• Contributed towards the designing, testing, and manufacturing of the vehicle suited for the 2024 Intercollegiate Rocket Engineering Competition – Spaceport America World Cup.

Fall 2022

**Numerical Heat Transfer Simulation – Embry-Riddle Aeronautical University**

• Simulated in MATLAB heating of a uniform two-dimensional plate by animating the evolution of the temperature magnitude for each discretized cell as provided by numerical decomposition of the partial differential equation. (Report Linked Here.)

Fall 2022

**Variable Characteristic Suspension Simulation – Embry-Riddle Aeronautical University**

• Decomposed the system into a variable coefficient system of differential equations using the one-sided Laplace transform. Modeled predictions on how to improve performance given coefficients for spring and damper. (Report Linked Here.)

2020 - 2022

**Mechanical Design of Liquid Propellant Motors – Lutheran High School**

• Designed a kerosene - hydrogen peroxide liquid rocket motor in fulfillment of STEM Academy Capstone Project. Delivered a forty-five- minute speech and presentation detailing design and specifications of motor. (Report Linked Here.)

## EDUCATION

2022 – Present

**B.S. Aerospace Engineering - Astronautics, Embry-Riddle Aeronautical University**

• Expected 2025, GPA 4.00

## ADDITIONAL SKILLS

**Technical Skills** Python, Data Analysis, Catia V5, MATLAB, Mathematica
**Soft Skills** Corporate Leadership, Public Speaking, Technical Report Communications
**Certifications** Catia V5 Specialist - Mechanical Designer, Amateur Ham Radio Technician