

# Shea M. Schmidt

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sheaschmidt.github.io

## OBJECTIVE

Technologist, Entrepreneur & Aerospace Engineer, with active clearance and 3+ years of experience in small business senior executive leadership, seeking to build engineering career.

## EXPERIENCE

Summer 2024

### **Intern SIT&E Engineer – Northrop Grumman**

Hired to participate in a cleared intern-level aerospace 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.

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.

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.

## 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, Microsoft Office

### **Soft Skills**

Corporate Leadership, Public Speaking, Technical Report Communications, Team Building

### **Certifications**

Catia V5 Specialist - Mechanical Designer, Amateur Ham Radio