

Shea M. Schmidt

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OBJECTIVE

Technologist, Entrepreneur & Scientist, with favorably adjudicated Top Secret clearance investigation (T5) as of 5 Sep. 2024 and over three years of experience in small business senior executive leadership; extreme passion in predicting the future and securing American military and intelligence priorities.

EXPERIENCE

2024 - Present

Flight Test Engineer – Northrop Grumman Corporation

Responsible for safe and effective flight test operations and test planning at Edwards Air Force Base and Plant 42 in Palmdale, CA. Crew Resource Management trained and participated in multiple mission control room (MCR) environments to support mission critical activities.

2020 - Present

Chief Information Officer – No Entry LLC.

Primary authority over the evaluation and resolution of the scientific and technological issues within the organization. Co-founded the company in 2020. Live production operations began in October 2023.

2023 - Present

Undergraduate Researcher – Embry-Riddle Aeronautical University

Conducting research on design and construction of a multi-spectral, multiple sensor observatory platform for study of aerial phenomena. Seeking funding for Fall 2024.

Spring 2024

Hypersonic Test Bed Vehicle Analysis – Embry-Riddle Aeronautical University

Lead a team of three engineers as the chief engineer by designing a proposal and subsequent completion of a report for completion of required AE302: Aerodynamics II term project. This report details thorough mathematical and engineering analysis of the performance, flight operating limitations, mission range, and propulsion system of the Quarterhorse hypersonic vehicle proposed by Hermeus.

2023 - Present

Teaching Assistant and Tutor – Embry-Riddle Aeronautical University

Responsible for assisting grading and lecture in AE313 – Orbital Mechanics and MA241 – Calculus and Analytical Geometry I as well as tutoring for all undergraduate engineering mathematics courses.

2022 - Present

Lead Payload 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.

2020 - 2022

Liquid Rocket Propulsion Design & Manufacture – Lutheran High School

Designed a kerosene - hydrogen peroxide liquid rocket motor in fulfillment of STEM Academy Capstone. Delivered capstone presentation detailing design and design specifications of motor.

EDUCATION

B.S. Aerospace Engineering – Embry-Riddle Aeronautical University

GPA: 4.000. Pursuing dual focus in Astronautical and Aeronautical Engineering.

SOCIETIES

President Sigma Gamma Tau. *Inducted* Tau Beta Pi, Phi Kappa Phi, Tripoli Rocket Association

SKILLS

Technical Skills

Python, Linux, Data Analysis, Catia V5, MATLAB, Ansys Mechanical APDL, Microsoft Office

Personal Skills

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

Certifications

Catia V5 Specialist - Mechanical Designer, FCC Technician Amateur Ham Radio Operator, Crew Resource Management Trained (USAF 419th Test Wing Course).