

SHEA SCHMIDT

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OBJECTIVE

Entrepreneur & Aerospace Engineer with active security clearance and 3+ years of experience in financial technology senior executive leadership, seeking full-time engineering roles.

EDUCATION

B.S. Aerospace Engineering - Astronautics, Embry-Riddle Aeronautical University Expected 2025
Relevant Coursework: Differential Calculus, Thermodynamics, Fluid Dynamics, Material Sciences. GPA: 4.0

SKILLS

Technical Skills	Python, Data Analysis, Computer Aided Design Software, MATLAB Simulations
Soft Skills	Corporate Leadership, Public Speaking, Technical Report Communications
Certifications	Catia V5 Specialist - Mechanical Designer, Amateur Ham Radio Technician

EXPERIENCE

Chief Information Officer May 2020 - Present
No Entry LLC. *Cheyenne, WY*

- Responsible in leadership role to evaluate and resolve scientific and technological issues within the organization.
- Achieved daily % portfolio growth using statistical modelling and data analytical skills.
- Successfully programmed and implemented trade-algorithm application into live back-end testing environment.

PROJECTS

Numerical Heat Transfer Simulation. Decomposed the partial differential heat equation in 2D into a numerical model that could be calculated by MATLAB. Simulated cooling and heating of a uniform two-dimensional plate by animating the evolution of the mapping of the temperature magnitude for each discretized cell into three spatial dimensions. ([Report linked here.](#))

Liquid Propulsion High School Capstone. Designed a theoretical kerosene - hydrogen peroxide liquid rocket motor assembly. Interviewed five industry experts to review my research and presentation. Analyzed available empirical data from industry leaders on kerosene - hydrogen peroxide performance metrics. Delivered a forty-five-minute speech and presentation detailing design and specifications of motor to peer-audience. ([Report linked here.](#))

Variable Suspension Simulation. Decomposed the problem into a variable coefficient differential system of equations using the one-sided Laplace transform and utilized MATLAB's graphical functionalities to simulate system evolution. Modelled suspension systems and made predictions on how to improve performance given coefficients for spring and damper. ([Report linked here.](#))

EXTRA-CURRICULAR ACTIVITIES

- Aerostructures and Propulsion engineer for the Rocket Development Laboratory's Solid Propulsion division.
- Contributed in the designing, testing, and manufacturing of the university competition flight vehicle suited for the 2024 Intercollegiate Rocket Engineering Competition – Spaceport America World Cup.

LEADERSHIP

- Lead the formation, operation, and proliferation of technology startup company alongside two friends and colleagues for the last 3 years.
- Demonstrated leadership in the Boy Scouts of America for over ten years.