

OBJECTIVE Contribute innovative engineering solutions with the ultimate goal of developing systems to ease access to space.

EDUCATION **Bachelor of Science in Mechanical Engineering**
Engineering Leadership Development Minor **Graduated**
The College of Science and Engineering **December 2023**
The Pennsylvania State University, University Park, PA GPA: 3.34/4.00

WORK **Mechanical Engineer I**

EXPERIENCE **General Dynamics Electric Boat**, New London CT (December 2023 - Current)
Secret Clearance and Security Representative

- Cognizant engineer of three complete systems.
- Completed complex calculations including force analysis, kinematics, and vibrations to ensure systems comply with standards.
- Managed and organized large-scale discussions to integrate multiple complex systems and ensure functionality.
- Completed comprehensive technical documentation.

Mechanical Engineering Intern

Peraton, Princess Anne MD (June 2023-August 2023)

- Designed and retrofitted testing fixtures and parts for a next generation rocket including fins, skins, and separation systems.
- Devised six sets of constraints and tests for constraints including force analysis and advanced kinematics to test for allowable flight.

Mechanical Engineering Intern

Bechamo, Buffalo NY (Dec 2022-May 2023)

- Designed, built, and tested aircraft with functioning moving surfaces to physically represent emulation code.
- Fabricated, assembled, and verified multi-degree of freedom motor rotating system using additive manufacturing.

PROJECTS

- **Capstone** Prototyped, built, and tested 6 DOF robotic arms to automate assembly.
- **ACRP Challenge** Designed and analyzed novel runway excursion prevention device.
- **Engineering Design** Prototyped, coded, and 3D printed fully functional smart cup.
- **Entrepreneurship** Created custom neon sign business to generate over \$500/week.

SKILLS

Engineering Design & Graphics	Finite Element Analysis
Thermodynamics, Fluid Dynamics, Heat Transfer	Statics, Dynamics, Solids
Modeling Dynamic Systems, Mechanism design	Vibration Mechanics
Engineering Leadership, Project Management	Circuits, Mechatronics

SOFTWARE SolidWorks, SolidWorks Simulations (FEA CFD), AutoCAD, NX, Team center
MATLAB, Arduino, C#, Python Programming languages

LEADERSHIP Peer Partnership Program 2022-2023
Engineering Leadership Society 2021-2023
Recipient, Boy Scouts of America Eagle Scout Rank 2020