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**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	Finate 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, DOORS, 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