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Samuel M. Piedmonte

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EDUCATION	Bachelor of Science in Mechanical Engineering Engineering Leadership Development Minor The College of Science and Engineering The Pennsylvania State University, University Park, PA		Graduated December 2023 GPA: 3.31/4.00
WORK	<u>Mechanical Engineer I</u>		
EXPERIENCE	<u>General Dynamics Electric Boat</u> , New London CT (December 2023 - Current) <ul style="list-style-type: none">• Obtained Secret Clearance• 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. <u>Mechanical Engineering Intern</u> <u>Peraton</u> , Princess Anne MD (June 2023-August 2023) <ul style="list-style-type: none">• Designed and retrofitted testing fixtures and parts for a next generation rocket including fins, skins, and separation systems.• Devised 6 sets of constraints and tests for constraints including force analysis and advanced kinematics to test for allowable flight. <u>Mechanical Engineering Intern</u> <u>Bechamo</u> , Buffalo NY (Dec 2022-May 2023) <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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 of income.		
SKILLS	Engineering Design & Graphics Thermodynamics, Fluid Dynamics, Heat Transfer Modeling Dynamic Systems, Mechanism design Engineering Leadership, Project Management	Finite Element Analysis Statics, Dynamics, Solids Vibration Mechanics Circuits, Mechatronics	
SOFTWARE	SolidWorks, SolidWorks Simulations, AutoCAD, NX MATLAB, Arduino, C#, Python Programming languages		
LEADERSHIP	Peer Partnership Program Engineering leadership Society Vice President Sigma Tau Gamma Fraternity Recipient, Boy Scouts of America Eagle Scout Rank	2022-2023 2021-2023 2021-2022 2020	