

Greg Westfall

Electrical Engineering Student

724.825.8957	gregwestfall20@gmail.com	Pittsburgh, Pennsylvania
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Education	The Pennsylvania State University (August 2020 – May 2025) University Park, Pa BS in Electrical Engineering and Mathematics GPA 3.98 Relevant Coursework: Linear Time-Invariant Systems, Linear Control Systems, Real Analysis, Advanced Linear Algebra, Probability Theory	
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Skills	Python (Matplotlib, Plotly, Pandas, etc.) ROS NI Labview	Matlab Team Leadership Analytical Problem Solving
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Leadership & Projects	Penn State Advanced Vehicle Team (February 2022 – Current) Club President and Team Lead (June 2022 – December 2022) <ul style="list-style-type: none">Led a team of 50 students to design a level four autonomous vehicle as a part of the AutoDrive ChallengeUtilized knowledge and collaborated with fellow team members to develop and implement a lateral and longitudinal control system in Python and integrated this solution into ROSDelivered technical presentations at the final competition, placing second place out of ten teams and winning thousands of dollars in a TED Talk style presentation Penn State Rock Climbing Club (December 2020 – Current) Club President (May 2022 – August 2022) <ul style="list-style-type: none">Organized events for new and experienced climbers to engage in, while emphasizing safe climbing practicesLed the successful effort to gain club sports status for the group, allowing members to compete at national events while representing the organization and increasing membership by 150%	
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Work Experience	Electrical Engineering Co-op (January 2023 – August 2023) Fluor Marine Propulsion (Naval Nuclear Lab) <ul style="list-style-type: none">Engineered a versatile post-processing script using Python, resulting in a 10x improvement in speed and data significanceConceived a multi-layered PCB using ExpressPCB, thereby presenting a design that was twice as small Math Peer Tutor (February 2022 – December 2022) Penn State Learning <ul style="list-style-type: none">Led and managed review sessions for up to seventy-five people, employing clear communication and leadership skills to facilitate learningEmployed the use of 3D graphing software to demonstrate key concepts, demonstrating an innovative approach to teaching and problem-solving	
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