

# Anthony Del Coro

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<b>Education</b>	<b>VIRGINIA TECH</b> Bachelor of Science in Mechanical Engineering, GPA: 3.3/4.0 Relevant Coursework: Kinematics of Machinery, Thermodynamics, Applied Electrical Theory, Vibrations, Fluid Dynamics, Mechanical Design	<b>BLACKSBURG, VA</b> May 2027
<b>Skills</b>	<b>Software:</b> SolidWorks (Certified Professional), NX, ANSYS (Structural), MATLAB, LATEX, Microsoft Office <b>Manufacturing:</b> Vertical Mill, Lathe, Waterjet, Plasma Table, Press-Break, 3-Axis CNC, 3D Printing and Welding (Oxy-Fuel, TIG, MIG, Stick)	
<b>Experience</b>	<b>ALTEC</b> <b>Product Engineering Co-op</b> <ul style="list-style-type: none"><li>Supported development and testing of new digger derricks.</li><li>On a daily basis, I designed large assembly models, optimized parts for manufacturing and assembly, applied ANSYS for design evaluation, and drafted prints for installation.</li><li>Conducted study on bolt pre-load vs. torque for pedestal installation. Prompting a re-evaluation of the companies torquing standard for this application, leading to new standard practices being implemented.</li><li>Re-vamped the plants hydraulic pump pack, with a focus on serviceability, modularity and ease of use. Implemented in production with a 30% reduction in set-up time on the plant floor.</li><li>Developed and manufactured a work platform for prototype derrick. Key features included development of a modular system for placing counterweight (upwards of 10 tons) removing the need for welding.</li></ul>	<b>ROANOKE, VA</b> Summer / Fall 2024
	<b>ASTROBTOICS AT VIRGINIA TECH</b> <b>Manufacturing Lead</b> <ul style="list-style-type: none"><li>Contributed to the design and construction of a semi-autonomous robot for building berms in a simulated lunar environment, showcasing skills in systems engineering, project management, and mechanical design.</li><li>Led a sub-team in developing a robot chassis, achieving weight optimization and efficient design for manufacturing and assembly (DFM/DFA).</li><li>Successfully created a chassis under mass budget, reducing assembly and manufacturing time by 40%.</li><li>Transitioned to Manufacturing Lead, training and consulted team members in DFM as well as physical manufacturing techniques. I additionally led trainings including SolidWorks and FEA.</li></ul>	<b>BLACKSBURG, VA</b> 2022-Present
	<b>LAKE MOHAWK COUNTRY CLUB</b> <b>Lifeguard / Supervisor</b> <ul style="list-style-type: none"><li>Oversaw operations of 10 beaches, ensuring safety and efficiency.</li><li>Led emergency response efforts, conducted safety drills, and managed patron interactions. Improved emergency response time by 15%, enhancing overall safety and preparedness.</li><li>Demonstrated high vigilance, strong leadership, and exceptional interpersonal skills.</li></ul>	<b>SPARTA, NJ</b> 2019-2023
<b>Projects</b>	<b>3D INPUT DEVICE</b> <ul style="list-style-type: none"><li>Collaborated with a small group to develop a 3D input device for CAD software. The device allowed the user to translate the model by interpreting the 3D input from the device.</li><li>Encompassed the entire design process, exploring economics, design, prototyping, and marketing.</li><li>Produced for 80% less than current market offerings</li></ul>	Spring 2024
	<b>VEX ROBOTICS</b> <ul style="list-style-type: none"><li>As the leader of a design team, I led the development of a competitive robot for the VEX competition season. This project required extensive use of CAD, problem solving and physical prototyping.</li><li>Our team's efforts culminated in competing at the World Championship in Dallas, Texas.</li></ul>	2019-2022
<b>Leadership</b>	<b>SENIOR PATROL LEADER</b> <ul style="list-style-type: none"><li>Organized and led weekly meetings for many scouts. Collaborating closely with adult leaders, developing curriculum and activities.</li><li>Underscored my leadership skills and commitment to fostering a dynamic and enriching environment.</li></ul>	2019-2020
<b>Awards &amp; Honors</b>	Eagle Scout - Troop 150 College of Engineering Dean's List - Virginia Tech Awarded William A. and Betty W. Potts Scholarship - Virginia Tech National Honor Society - Sparta High School	2020 2022-2024 2023-2024 2021