

Rocco Vitela

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EDUCATION

Cornell University, College of Engineering

Candidate for Bachelor of Science in Mechanical Engineering

Ithaca, New York

Anticipated Graduation: May 2028

Independence High School

Graduated with an Advanced Diploma

Honors/Awards: 4x Honor roll, Social Inclusion Award,

IHS (Impact, Honor, Strength) Award, 3x Varsity Letter

Ashburn, Virginia

Graduation: June 2024

GPA: 4.43

SKILLS & CERTIFICATIONS

Skills: Ansys Workbench, SolidWorks, CNC Milling, CAM Software, Fusion 360, Python, Microsoft Office

Certifications: SolidWorks CSWA Associate Certification, Autodesk Fusion Certified User

EXPERIENCE

CORNELL BAJA SAE RACING TEAM

Mechanical Engineer

Ithaca, New York

August 2025 – Present

- Design, analyze, and test components for an off-road vehicle competing in the SAE Collegiate Baja Design Series.
- Collaborate with a multidisciplinary team of 60+ engineers in a year-long cycle of design, prototyping, and fabrication.
- Lead design and fabrication of structural tabs to reinforce critical vehicle connections.
- Utilize CAD (SolidWorks) and FEA tools (ANSYS) to design and optimize structural tabs, enhancing load-bearing capacity under static and dynamic conditions.

NACME AUTODESK ENGINEERING DESIGN BOOTCAMP

Engineering Intern

Remote

Summer 2025

- Completed a 30-day, engineering design bootcamp focused on CAD modeling, prototyping, and digital manufacturing.
- Developed 15+ 3D models and assemblies in Fusion 360, applying mechanical design principles to create functional parts.
- Participated in 8+ professionally led workshops on design thinking, rapid prototyping, and engineering communication.

COSTCO WHOLESALE

Sales Associate

Leesburg, Virginia

July 2024 – August 2025

- Collaborated with a team of 10+ associates to meet daily sales goals, consistently exceeding performance targets by 5%.
- Assisted an average of 150+ customers daily, ensuring a positive shopping experience and addressing any issues correctly.
- Increased membership upgrades by 25% during the holiday season by emphasizing exclusive benefits for shoppers.

EXTRACURRICULAR AND LEADERSHIP

ASSOCIATION OF LATINO PROFESSIONALS FOR AMERICA

Finance Committee President

Ithaca, New York

February 2025– Present

- Selected for a 10-week professional development program, gaining career readiness through workshops and mentorship.
- Led an industry sector project, conducting in-depth research and delivering a final presentation to 50+ club members.
- Assisted in the planning and execution of cultural and professional events, reaching over 150+ attendees annually.

CORNELL SKI AND SNOWBOARD CLUB

Vice President

Ithaca, New York

September 2024 – Present

- Assist in managing club events, including international ski trips, social gatherings, and local ski related events.
- Coordinate in-person and online meetings with travel agency representatives to secure the best deals and arrangements.
- Shared responsibility for budgeting club dues for over 100+ members, promoting effective allocation of resources.

INDEPENDENCE HIGH SCHOOL SPECIAL OLYMPICS

Team President

Ashburn, Virginia

August 2021 – June 2024

- Successfully organized and scheduled 50+ team practices, 2 state-wide tournaments, and 2 banquets with 70+ people.
- Managed a \$850 annual budget, allocating funds to events, equipment, transportation, and Special Olympic membership.
- Worked closely with athletes, team members, and faculty to ensure smooth and efficient practices and tournaments.

STUDENT CODERS OF VIRGINIA

Ashburn, Virginia

Senior Coding Instructor

June 2023 – August 2023

- Provided basic coding education to 150+ local elementary and middle school students, sparking interest in technology.
 - Organized 25+ online Zoom teaching sessions, ensuring effective learning while maintaining interactive lessons.
 - Designed online website and various slideshows that were utilized in teaching sessions to enhance student learning.
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