

Marcello Lombardo Jr.

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2027

Bachelor of Science, Mechanical Engineering, Dyson Business Minor for Engineers

GPA: 3.65

Relevant Courses: Dynamics, Thermodynamics, Statics & Mechanics of Solids, Intro to Mechanical Design, Intro to Computing: ENGRG & Sci, Physics I: Mechanics & Heat, Physics II: Electromagnetism, Phys III-Osc Waves & Quan Phys, Multivariable Calculus Engrs, Differential Equations Engrs, Linear Algebra for Engineers

PROFESSIONAL EXPERIENCE

STV, New York, NY, *Mechanical Engineering Intern*

Jun-Aug 2024 / Dec 2024 – Jan 2025

- Designed and drafted fiber optic cable layouts for subway tunnel systems in New York City using AutoCAD, ensuring compliance with engineering standards and project requirements.
- Consulted with engineers to develop routing solutions that cleared obstacles within subway tunnels, ensuring safe, efficient, and maintainable cable infrastructure layouts.
- Gained hands-on experience with engineering design processes in a professional setting, contributing to a large-scale transit infrastructure project.

Cornell Mars Rover, Ithaca, NY, *Drives Subteam member*

Feb 2024 – Present

- Contributed to the design and analysis of the rover's drivetrain, chassis, and suspension, collaborating with 10 teammates to ensure mobility over rough terrain.
- Applied CAD modeling and mechanical design principles to develop rover drive system components, then fabricated parts using lathes, mills, and 3D printing for prototyping and testing.
- Designed and manufactured a scout drone to accompany the rover, providing aerial reconnaissance capability for competition missions.
- Designed and built a small RC-style rover, including custom gearboxes, for testing drivetrain concepts and subsystem integration.

Meszaros Engineering, Lynbrook, NY, *Mechanical Engineering Intern*

Apr – May 2023

- Reviewed project proposals and revised project plans using AutoCAD to meet design and client requirements.
- Collaborated with lead engineers when consulting clients, ensuring clear communication and alignment on project goals.
- Monitored progress of a gas infrastructure rehabilitation project for an apartment complex in Manhattan, supporting on-time and safe project execution.

SPECIALIZED SKILLS

Programs: AutoCAD, SketchUp, Inventor, SolidWorks, ANSYS, MATLAB, Python

Languages: Italian (fluent)

ACTIVITIES & INTERESTS

Interests: Skiing, Golf, Pickleball, Piano

Activities: Cornell Ski and Snowboard Club, Cornell Society of Cornell, Air & Sea Hospitality at Cornell