

Remy Star Vearil

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Master of Engineering in Mechanical Engineering, Focus Area in Energy Degree Expected December 2026

Cornell University, College of Engineering, Ithaca, NY Degree Expected May 2026
Bachelor of Science, Mechanical Engineering, Dyson Business Minor for Engineers, GPA: 3.75

Relevant Courses: Heat Transfer, Fluid Mechanics, Thermodynamics, Mechatronics, Advanced Product Design, Mechanical Synthesis, System Dynamics, Propulsion of Spacecraft, Wind Power.

PROFESSIONAL EXPERIENCE

Affiliated Engineers Inc, San Francisco, CA, *Mechanical Engineering Intern* June 2025-August 2025
• Contributed to HVAC system design and layout for campus and laboratory facilities using Revit and AutoCAD, supporting senior engineers with detailed mechanical drawings and specifications.
• Used IES VE to simulate thermal loads and optimize mechanical system designs in alignment with ASHRAE and LEED standards.

Altanova (Energy & Sustainability Consulting), New York, NY, *Building Performance Intern* June 2024-August 2024
• Conducted energy audits on multifamily high-rises, supporting sustainability goals and energy compliance.
• Assisted in commissioning buildings for energy standards and sustainability programs.
• Performed energy benchmarking to assess carbon profiles and compliance with local regulations.

Apple Rehabilitation, Avon, CT, *Data Systems Engineering Intern* Dec 2023-June 2024
• Developed & implemented a cloud-based system for tracking bed openings/occupancy in a care facility.
• Utilized system data for operations evaluations, including turnover rates and live occupancy statistics.

Symbiotic Engineering and Analysis Lab, Ithaca, NY, *Scientific Researcher* Aug 2022-Dec 2023
• Researched the optimization of integrated pumped hydro reverse osmosis systems (IPHROS).
• Designed a mixing system between the brine stream of IPHROS and ocean water.
• Worked with QGIS, ANSYS Fluent, pyANSYS, and Fusion360.

LEADERSHIP EXPERIENCE

Rosedale Farm and Vineyard, Simsbury, CT, *Farm Stand Manager* Aug 2018-Aug 2023
• Managed a staff of 20+ employees, fostering a positive work environment.
• Effectively supervised day-to-day operations of the business, guaranteeing customer satisfaction.

Hydropower Collegiate Competition Team, Cornell University, *Team Member* Aug 2022-May 2023
• Performed extensive research to curate a feasible hydropower implementation report.
• Worked with the U.S. Department of Energy's Water Power Technologies Office.

ADDITIONAL INVOLVEMENT

NYSERDA, *Clean Energy Internship Program Member* June 2024-Present
Society of Women Engineers, Cornell University, *Member* Aug 2022-Present

SPECIALIZED SKILLS

Programs and Certifications: Fusion 360, MATLAB, QGIS, ANSYS, Revit, SolidWorks, IES VE, AutoCAD, Excel, Bluebeam, OSHA-10 Certified

Languages: English (fluent)