

Remy Star Vearil

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EDUCATION

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

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)