

Remy Vearil

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected Dec 2026

Master of Engineering in Mechanical Engineering, Focus Area in Energy

- **Thesis** (advisor: Prof. Lindsay Anderson): Modeling data center waste heat recovery for year-round greenhouse heating in MATLAB across 4 cooling scenarios; preliminary results show recovered heat can cover 100% of winter demand.
- Applying ML to generate predictive seasonal schedules that match greenhouse heat demand to data center operations.

Cornell University, College of Engineering, Ithaca, NY

May 2026

Bachelor of Science, Mechanical Engineering, Dyson Business Minor for Engineers, Magna Cum Laude, GPA: 3.8

Relevant Courses: Advanced Product Design, Mechatronics, System Dynamics, Future Energy Systems, Heat Transfer

PROFESSIONAL EXPERIENCE

Edged Energy, New York, NY, *Design Technology and Generative Systems Intern*

Jun 2026 - Present

An Endeavour company developing waterless-cooled, AI-ready data centers; 388+ MW delivered across 7 U.S. markets

- Lead product for downstream delivery (design visualization) of an Omniverse platform for a 118 MW hyperscale data center, shaped by needs from sales, design, land, and test engineering; launching at the OCP Global Summit (Oct 2026).
- Cut multi-day design decisions such as site layouts to minutes with fitting algorithms, and CFD runs from about an hour to under 10 minutes with a physics-informed ML model.
- Developed platform features in Python and C++, including the CFD-to-Omniverse pipeline (OpenFOAM, PyVista, OpenUSD); prioritized wind CFD as the MVP to prove the concept and supply site-orientation data.
- Integrate AI workflows into the platform, including an agentic workflow for Omniverse visualization, and scoped generative site-design optimization; helped build the project's Asana system.

Affiliated Engineers, Inc., San Francisco, CA, *Mechanical Engineering Intern*

Jun 2025 - Aug 2025

- Supported HVAC design and layout in Revit and AutoCAD for campus and lab facilities, including UC Davis's \$125M Big Shift conversion of campus heating from steam to hot water.
- Drove an initiative to explain each engineering discipline to other groups, presenting a mechanical engineering lunch-and-learn to engineers and non-engineers.

Altanova, New York, NY, *Building Performance Intern*

Jun 2024 - Aug 2024

Energy and sustainability consulting firm

- Audited 4 multifamily high-rises with field measurements and boiler tests, achieving >20% energy savings through changes to water fixtures, windows, and lighting fixtures and schedules.
- Benchmarked energy use for carbon profiles and regulatory compliance; supported commissioning.

Apple Rehabilitation, Avon, CT, *Data Systems Engineering Intern*

Dec 2023 - Jun 2024

One of Connecticut's largest short-term rehabilitation providers

- Built and rolled out a bed-tracking system in Smartsheet with automated workflows, a custom API, and live occupancy and turnover reporting, used by the administrators of all 21 of the company's nursing homes.

LEADERSHIP & PROJECTS

Data Center Innovation Community, Cornell University

2026 - Present

- Launching a data center innovation community at Cornell, including a summit planned for October 2026.

Innovation Collaborative, Cornell Engineering, *Team Leader*

Spring 2026

- Led the winning team analyzing the market opportunity and commercialization path for a faculty-developed two-photon fluorescence microscope; pitched recommendations to a judging panel.

Rosedale Farm and Vineyard, Simsbury, CT, *Farm Stand Manager*

Aug 2018 - Aug 2023

- Managed a staff of 20+ employees and supervised day-to-day operations of the farm stand.

Hydropower Collegiate Competition Team, Cornell University, *Team Member*

Aug 2022 - May 2023

- Owned the mixing design for the brine stream of the team's integrated pumped hydro reverse osmosis (IPHROS) system, simulating brine and seawater mixing to reach near-uniform discharge.
- Headed outreach and presented the team's hydropower report to DOE's Water Power Technologies Office and industry.

SKILLS & INVOLVEMENT

Programming & Data: Python (PyVista, Omniverse), C++, MATLAB, Smartsheet (workflow automation, API)

AI & ML: Physics-informed ML, agentic AI workflows, predictive scheduling models, generative design

Simulation & 3D: NVIDIA Omniverse, OpenUSD, OpenFOAM, ANSYS Fluent, pyANSYS, IES VE, QGIS

Design & Project Tools: SolidWorks, Fusion 360, Revit, AutoCAD, Asana

Involvement: NYSERDA Clean Energy Internship Program (2024 - Present), Society of Women Engineers (2022 - Present)