

# Evelyn Chiu

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## EDUCATION

**Cornell University**, College of Engineering Expected May 2025

**GPA: -/4.0** | Master of Engineering in Systems Engineering

**Relevant Coursework:** Model Based Systems Engineering | Six Sigma | Project Management | Energy Economics

**Cornell University**, College of Engineering Aug. 2020 – May 2024

**GPA: 3.85/4.0** | Bachelor of Science in Mechanical Engineering, Creative Writing Minor

*Kessler Fellow in Entrepreneurship (2023), Magna Cum Laude Honors (2024), Dean's List Recipient (All Semesters)*

**Relevant Coursework:** Designing New Ventures | Innovative Product Design | Mechatronics | Aeronautics | Internet of Things

## PROFESSIONAL EXPERIENCE

**COLLECTIF Engineering PLLC**, New York, NY May 2023 – Aug. 2024

*MEP Energy Intern via Kessler Fellows Program*

- Improved company operational efficiency and long-term planning by creating easy-to-read dashboard with KPIs from project and invoicing data, accrual transactions, and employee timesheets using SQL and Zoho Analytics
- Created energy models using eQuest and CBECC-Com to determine energy compliance for high-rise residential buildings
- Analyzed inefficient existing chiller plant design and wrote report to address problems and propose solutions to client
- Produced MEP/FP plans using Revit for 10+ projects across various sectors, including spas, modular, and health centers

**MG Engineering D.P.C.**, New York, NY May 2022 – Aug. 2022

*Mechanical Summer Intern*

- Calculated mechanical loads, ventilation requirements, and equipment sizing for 10+ projects using Trane Trace 700 and Excel
- Created riser diagrams, ductwork in floor plans, markups, schedules in Bluebeam Revu, Revit, and AutoCAD
- Assisted project engineers on site visits with mapping existing systems onto paper and conducting special inspections

## ENGINEERING PROJECTS

**Engineers Without Borders, Cornell University Chapter**, Ithaca, NY Nov. 2020 – May 2024

*Domestic Project Team Lead*

- Initiated and led the design and cost estimation of MEP design documents in AutoCAD, ensuring alignment with client needs
- Directed a team of seven from project inception to completion, delivering Sustainable Housing Unit for residents of the Pine Ridge Native American Reservation in South Dakota, addressing high rates of homelessness
- Managed weekly meetings with community partners and network of professional engineers, ensuring successful project delivery

**NYU Langone Health**, New York, NY June 2018 – Jan. 2020

*Student Researcher in Motor Recovery Lab*

- Researched effectiveness of the Bimanual Arm Trainer, a device that helps stroke patients retrain shoulder external rotation
- Communicated logistics of training in one-on-one meetings with patients and monitored their training sessions
- Formulated statistical conclusions with data on MATLAB and Excel, and presented findings at four research symposia

## ACADEMIC PROJECTS

**Air Quality Sensor for Seneca Meadows Landfill** (MAE 4220: Internet of Things). Feb. 2024 – May 2024

*Air quality sensor with LoRaWAN connection for local nonprofit BluePrint Geneva to monitor the air quality of the landfill*

- Coded C++ for environmental sensor and pollutant system, integrating real-time data transmission to The Things Network
- Designed on Fusion 360 and 3D printed a Stevenson screen to house sensor and mount near landfill
- Documented project and process in a user guide to allow for the system to be easily replicated
- Led a team of three students and organized weekly communications with a community partner in Geneva to design system
- Awarded in uSpark Living Lab Pitch Competition at Cornell University

**Seated Storage Unit** (Capstone Project, MAE 4341: Innovative Product Design) Sept. 2023 – Dec. 2023

*Storage unit with a flip-up backrest to serve as a seat, made of cardboard to be recycled sustainably by college students*

- Conducted immersive fieldwork to define problem statement, gathered information via conjoint analysis and surveys
- Managed tasks assignments within a team of five to brainstorm, create concept sketches, model, and build three prototypes
- Presented ideas and pitched to professors and industry advisors using Canva and poster presentation

## SKILLS

**Computer Software:** AutoCAD, Revit, Fusion 360, Microsoft Office, Trane Trace, Bluebeam Revu, eQuest, CBECC-Com

**Computer Languages:** Python, MATLAB, SQL, C/Arduino, R