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: Systems Architecture| Renewable Energy Systems | Project Management (Pursuing PMP Certification Fall '24) | Model Based Systems Engineering (Pursuing INCOSE Certification Fall '24) | Six Sigma (Pursuing Black Belt Certification Fall '24)

Cornell University, College of Engineering — Aug. 2020 – May 2024
GPA: 3.85/4.0 | Bachelor of Science in Mechanical Engineering, Creative Writing Minor
Academic Honors: *Kessler Fellow in Entrepreneurship (2023), Magna Cum Laude Honors (2024), Dean's List Recipient (All Semesters)*

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 an easy-to-read financial dashboard with KPIs from project and invoicing data, accrual transactions, and employee timesheets using SQL and Zoho Analytics
- Produced MEP/FP plans using Revit for 10+ projects across various sectors, including a modular prototype and health center
- Determined energy compliance using eQuest and CBECC-Com models for three high-rise residential buildings, researched other renewable alternatives and feasibility, and recommended solutions for improving efficiency in written reports for clients

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

NYU Langone Health, New York, NY — June 2018 – Jan. 2020
Student Researcher in Motor Recovery Lab

- 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 AND RESEARCH

Sustainable Mobility Bus Shelter Project (Cornell University Sustainable Design) — Sept. 2024 – Present
Designing a triangular modular part that fits together to create a smart, modular bus shelter that notifies of bus arrival through LED lighting in Ithaca, NY

- Design in CAD and manufacture triangular modular parts to create alpha prototype to be implemented and tested on campus
- Oversee integration of architectural and engineering work to ensure design improves user experience and public transit

Sustainable Housing Unit (Engineers Without Borders at Cornell University) — Nov. 2020 – May 2024
Team lead in designing a tiny replicable home for elders of Pine Ridge Native American Reservation in South Dakota

- 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, managing team progress and initiating collaboration
- Conducted meetings with community partners and network of professional engineers, ensuring successful project delivery

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 in C++ for environmental sensor and pollutant system, integrating real-time data transmission to The Things Network
- Designed in Fusion 360 and 3D printed a Stevenson screen and mount to house sensor in location near landfill
- Documented project and process in a user guide to allow for the system to be easily replicated for community partner
- Coordinated weekly meetings with a community partner in Geneva to ensure design achieved user requirements

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

- Defined problem statement into functional requirements for users by conducting interviews, surveys, and observations
- Designed and ideated product by creating proof-of-concept sketches, defining functional architecture, and modeling in CAD
- Created three prototypes and tested with students, receiving feedback to enhance product performance and user experience
- Delegated tasks within a team of five, managed business logistics of product, and pitched to professors and industry advisors

SKILLS

Computer Software: AutoCAD, Revit, Fusion 360, Bluebeam Revu, SysML, Microsoft Office, Zoho Analytics, eQuest, Trane Trace
Computer Languages: Python, MATLAB, SQL, C/Arduino, R — **Certifications:** EIT, OSHA 10-Hour