

Stephanie Yuen

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EDUCATION

University at Buffalo, The State University of New York, Anticipated May 2024

Bachelor of Science, Mechanical Engineering

Bachelor of Arts, Mathematics

- Honors: Dean's List, GPA: 3.9/4.0

ENGINEERING WORK EXPERIENCE

Mechanical Design Engineer Intern, Eaton, Orchard Park, NY, June 2023 - August 2023

Project: Advanced Life Support System

- Managed the design process of a mask surrogate and flow straighteners, including drafting 3D models, creating prototypes, and interpreting results.
- Executed design, analysis, and testing tasks based on direction from Senior Engineers.
- Engaged in daily scrum meetings to provide updates on tasks assigned for current sprint activities.

ENGINEERING PROJECTS

Low Carbon Emission & Efficient Microgrids, November 2022 – May 2023

- Interacted with sponsors from the National Fuel Gas Company to develop a project management plan.
- Collaborated with a team of diverse engineering disciplines to establish a foundation for a study.
- Researched benefits and risks of microgrids to compare costs versus value in real applications.

Reverse Engineering a Stapler, September 2021 – December 2021

- Investigated archeology and functions of each component of the chosen product with a team of undergraduate engineers.
- Completed a four-gate process to analyze different factors considered in the manufacturing process.

Turbine Design Project, September 2020 – December 2020

- Awarded the First Year Engineering Design Team Award for unique experimentation.
- Researched with a group of engineers to consider the best energy source given a problem statement of providing electricity to a windy city.
- Conducted experiments using different design factors and analyzed experimental data to establish next steps in the design process.

TECHNICAL SKILLS

Computer Skills: Windows OS, MacOS, Google Suite, Microsoft Suite, Excel

Programming Languages: MATLAB, Python

Drafting Programs: SOLIDWORKS, Autodesk Inventor

ADDITIONAL WORK HISTORY

Orientation Leader, June 2022 – January 2023

- Interacted with multiple groups of over 400 new students to ensure a smooth transition to college.
- Facilitated interactive programs for numerous small groups of 40 students to help develop social connections.

LEADERSHIP EXPERIENCE AND ACTIVITIES

Secretary, Singaporean Student Association, August 2023 – present

Vice President, Math Club, November 2022 – present

Director of Art and Design, Hong Kong Student Association, February 2022 – May 2023