

ELAINE WANG

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Dedicated engineering student with strong communication and analytical skills seeking professional opportunities.

EDUCATION

CORNELL UNIVERSITY

Mechanical Engineering

- **GPA:** 3.9

- **Relevant Coursework:**

Dynamics, Thermodynamics, Statics & Mechanics of Solids, Engineering Probability and Statistics: Modeling and Data Science, Introduction to Computing in Python: Design and Development, Matrix Algebra and Applications, Differential Equations for Engineers, Visual Imaging in the Electronic Age

HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Aug. 2024 - Present, Expected Graduation May 2028

Summer Exchange Program

- Applied Generative AI for Interdisciplinary Projects
 - Acted as a technical consultant in the field of AI applications in education. Conducted field research at local schools, developed a prototype solution, and presented findings to Solomon Learning in a group project.

GARDEN CITY HIGH SCHOOL, NY

Sept. 2020 - Jun. 2024

- **GPA:** Unweighted 99 / Weighted 102.73 - Salutatorian (Rank 2/276)
 - Math Team President, Editor-in-Chief of school newspaper

AWARDS

- **2024 U.S. Presidential Scholar**
 - Selected as 1 of 161 scholars nationwide for “outstanding academic achievement, leadership, service, and contribution to school and community.”

EXPERIENCE/ACTIVITIES

- **Cornell Advanced Space Technology Research and Architectures Lab** Sept. 2025 - Present
Undergraduate Researcher
 - Conducted molecular dynamics and geometry optimization simulations using LAMMPS, CP2K, ASE, and DFTB+ for electrospray propulsion sputtering applications. Used OVITO for data visualization.
 - Experience with VSCode, HPC job scheduling (SLURM), Python
- **Cornell Entertainment Engineering and Design Club** Feb. 2025 - Present
Mechanical Lead
 - Leading team of student engineers to design and CAD mechanical components using Fusion 360 for a robotics project.
- **Cornell Society of Women Engineers** Sept. 2025 - Present
Committee Member
 - Member of Communications subteam, contributing articles and graphic design to annual publication
- **UPchieve Volunteer Tutor** Jan. 2023 - Aug. 2024
 - Certified online tutor in several subjects, provided tutoring to middle and high school students

TECHNICAL SKILLS

- CAD: Autodesk programs (Fusion 360, Revit, Inventor), Onshape
- Python, MATLAB, Java
- Microsoft Office Suite (Excel, Powerpoint, Word), Google Workspace
- Technical drawing and communication