

# ELAINE WANG

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

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## EDUCATION

### CORNELL UNIVERSITY

Aug. 2024 - Present, Expected Graduation May 2028

#### 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

Jun. 2025 - Aug. 2025

#### 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
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## 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.”
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## 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
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## 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