

Elvin Fu

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY Expected May 2026

Bachelor of Science, Mechanical and Aerospace Engineering GPA: 3.80

Relevant Coursework: Fluid Mechanics, Mechanics of Engineering Materials, Thermodynamics, Physics 3: Waves and Quantum Physics, Dynamics, Mechanical Synthesis (Intro to Mechanical Design), Intro to MATLAB, System Dynamics, Differential Equations for Engineers, Physics 2: Electricity and Magnetism, Linear Algebra for Engineers, Multivariable Calculus Engineers, Heat Transfer, Mechatronics, Introduction to Probability and Statistics for Engineers.

The Ohio State University, Columbus, OH. GPA: 4.00

Dual Enrollment June 2021 – May 2022

Technical Skills: MATLAB, Python, Autodesk Fusion 360, Microsoft Office, Google Suite, Flow/Sankey Diagrams, P&ID, Excel, GREET, OpenLCA, Helioscope

ENGINEERING EXPERIENCE

SEA Lab, Cornell University, Ithaca, NY, Undergraduate Research Assistant August 2023 – present

- Analyze the extraction of precious minerals from seawater while generating hydrogen to be used as a fuel source
- Conduct life cycle assessments on various lithium extraction and hydrogen production pathways through literature reviews, GREET, TRACI, and OpenLCA
- Present research findings to an audience of faculty, student researchers, and community members
- Prototype water pretreatment system to test ultrafiltration membranes at high pressures through CAD

Cornell University, Ithaca, NY, Teaching Assistant

August 2024 – present

- Lead recitation sections of 50 students and 3 hours of office hours weekly to guide students through confusing topics and MATLAB exercises in MAE 2210 Thermodynamics and MAE 2030 Dynamics

The Efficiency Network, Pittsburgh, PA, Energy Engineering Intern

May 2025 – August 2025

- Designed 900kW solar array through helioscope to improve current design of roof-mounted solar array for client
- Assisted in project management of construction at Wilkinsburg school district
- Supported in developing software fault detection tool of unit ventilators after being implemented
- Assisted in calculating heating/cooling loads for Greensburg-Salem school district
- Served under engineering and construction teams with 30 other team members

Nestlé R&D, Marysville, OH, Engineering Intern

May 2023 – August 2023

- Collaborated with Singapore and Switzerland facilities on sustainability project team to align all three facilities on their webpage platform for carbon neutrality initiative
- Identified inefficiencies by tracking water usage and motor energy consumption
- Created energy flow diagrams and contributed room layout diagrams for energy audit
- Worked with the three subgroups (Engineering, AI, Robotics)

College of Engineering and Applied Science, University of Cincinnati, Cincinnati, OH, Participant

July 2020

Online camp on co-op programs and engineering fields

- Presented project proposal alongside group members to a committee of judges and won 1st place in group competition consisting of 6 groups on designing a solution to address waste in the ocean

ADDITIONAL EXPERIENCE

Acupuncture by Chen, Columbus, OH, Clinic Assistant

June 2022 – August 2022

- Greeted and checked in 30-50 patients, ensuring a comfortable experience during their visits
- Performed administrative tasks by communicating with patients via email and phone as a receptionist
- Ensured a healthy, clean, and safe environment for patients by sanitizing rooms between appointments

Dublin Family Dental, Dublin, OH, Dental Assistant

August 2018 – May 2022

- Assisted in various dental procedures by supporting dental surgeries and providing proper instruments
- Sterilized patient rooms and instruments between appointments

VOLUNTEERING EXPERIENCE

Sustainable Finger Lakes, Ithaca, NY, Volunteer

August 2024 – present

- Populated Google sheet of contact information of all local officials in nearby counties and Finger Lakes area members in New York assembly and senate to inform them of regional issues and events

SKILLS & INTERESTS

Honors: Engineering Learning Initiatives Grant (2024), Dean's List (2022, 2024, 2025), AP Scholar with Distinction (2021,2022), Valedictorian (2022), National Honors Society (2021-2022), National Merit Commended Scholar (2022), President's Education Award (2022), Summa Cum Laude (2022), Diploma with Honors (2022)

Interests: Sustainable Energy Systems, Sustainable Transportation Systems, Baseball, Cross Country, Violin, Video Games, Frisbee, Basketball, Football, Smartphone/Laptop Technology, Weightlifting, Badminton