

Berwin Lan

Driven and enthusiastic student with a record of academic and extracurricular success interested in the aerospace industry, the intersection between ethics and machine learning, and above all meaningfully improving the lives of others. Actively seeking opportunities to expand my skills in a professional setting.

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EDUCATION

Olin College of Engineering, Needham MA

B.S. Engineering with Computing MAY 2024

- Recipient of 50% merit-based Olin Tuition Scholarship
- Rocketry, OSSTP, Design Build Fly, Student Activities Committee
- Quantitative Engineering Analysis 1, Design Nature, Modeling and Simulation of the Physical World, Democracy and Media

Westwood High School, Westwood MA JUN 2020

- GPA: 4.45/4.5

EXPERIENCE

Olin Satellite + Spectrum Technology & Policy Group, Needham MA — *Member* OCT 2020 - PRESENT

- Work under the direction of Dr. Whitney Lohmeyer on SWARM-EX, a CubeSat mission addressing how plasmas and neutrals interact across local, regional, and global scales
- Gain skills designing a CubeSat to specifications and 3D printing CubeSat components

Boston College Wang Group, Newton MA — *Lab Intern* SEP 2018 - AUG 2019

- Worked with professor and team of students researching energy technology
- Prepared materials (carbon coated paper, electrodes) for use in Li-O₂ battery experiments

California Institute of Technology Minnich Group, Pasadena CA — *Research Intern* JUN - JUL 2019

- Analyzed and validated data sets using Python (NumPy, pandas, Bokeh) and JupyterLab
- Created and presented literature reviews and summaries for the group

Massachusetts General Hospital, Boston MA — *Junior Volunteer* SEP 2019 - MAR 2020

- Worked with staff to transport and discharge patients from Massachusetts General Hospital
- Answered questions and resolved issues for the public at the information desk

ACTIVITIES

Olin Rocketry, Needham MA — *Structures Subteam Member* SEP 2020 - PRESENT, OLINROCKETRY.COM

- Research, develop, and manufacture the nose cone of our next rocket, the Phoenix III
- Compete at the 2021 IREC Spaceport America Cup in the 10,000 ft category

Olin AIAA Design Build Fly, Needham MA — *Avionics Subteam Member* SEP 2020 - PRESENT, OLINDBF.COM

- Design, build, and iterate upon a glider design that will form the basis for an RC aircraft
- Develop highly specialized electric RC aircraft to compete in the AIAA DBF competition

Olin Student Government, Needham MA — *Assistant Director of Student Activities* SEP 2020 - PRESENT

- Plan student events in physical and virtual spaces, facilitating interclass bonding and campuswide cohesion
- Organize and facilitate weekly Student Activities meetings; attend monthly Student Gov't meetings

TECHNICAL SKILLS

MATLAB
Java
Python
CAD (SolidWorks, Fusion, Onshape)
OpenRocket
RASAero

GENERAL SKILLS

Communication
Leadership
Conflict Resolution
Project Management