

Florence Liang

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Camas, WA

RELEVANT COURSEWORK/SKILLS

Camas High School (Sept 2022 - June 2026)

- AP Biology
- AP Environmental Science
- Computer Aided Design
- GSuite, Office 365 (Excel, data analysis)
- Python, C++, Java, HTML/CSS
- Autodesk AutoCAD and REVIT certified

EXTRACURRICULAR ACTIVITIES

Science Olympiad

Sept 2022 - Present

- Served as the stand-in secretary and facilitated mass communication
- Increased team social presence by over 300%
- Hosted, proctored, graded biology and ecology events
- Wrote state tests for biology and ecology events
- 10 medals from invitational, regional, and state tournaments
- Constructed Arduino-based device to sense weight of an object
- Competed in state competition, winning 2nd in Washington
- Won 2nd in state for knowledge of environmental science and legislation

TeenHacks Long Island Public Relations Ambassador

June 2023 - Aug 2023

- Organized a hackathon for 1200+ attendees in New York
- Ran weekly newsletter and connected with potential sponsors

FRC Robotics Team 2471

Aug 2022 - June 2023

- Designed and manufactured parts for robot
- Led team through Regionals and State competitions

PROJECTS

AlgaePrize Automated Sporophyte Algae Production

Nov 2023 - Present

- Top-15 finalist in the nation for AlgaePrize, gained \$10k funding for research
- Consultant for all things biology/biochemistry

Noninvasive Acute Compartment Syndrome Device

Oct 2023 - Present

- Developed a device to measure the pressure of a limb noninvasively
- Constructed electrical diagrams and circuitry
- Conducted ROC statistical analysis and implemented machine learning
- Reached an accuracy of over 97%

MIT BWSI: Design, Build and Fly RC Model Aircrafts

Nov 2022 - Dec 2022

- Learned the theory of aircraft from Massachusetts Institute of Technology
- Used limited resources to make a fully-fledged RC plane which flew 20+ feet

FDA and Pure Food and Drug Act (PFDA) of 1906

Nov 2020 - Mar 2021

- Organized and produced a 10-minute documentary exploring the implications of the PFDA
- Analyzed scientific papers and historical documents

VOLUNTEER EXPERIENCE

STEM Program counselor

Sept 2023 - Oct 2023

- Led physics-based balloon car and foil boat activities
- Worked with my city's public library to organize event space for 30+ children ages five to ten

OC Harvest Food Bank Volunteer

Sept 2021 - July 2022

- Gave back to community by weeding/planting gardens
- Organized and promoted donation drive with school to donate 800+ nonperishable items