

Alexis Wong

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Education

University of Washington

B.S. Materials Science and Engineering

Seattle, WA

Expected June 2027

Projects

UW Engineering Student Organization, SAMPE:

Seattle, WA

- Measured, cut, and assembled fiber-reinforced composites for use in various tasks, ensuring precision and consistency in material orientation
- Cured prepgs using industry-grade autoclave and vacuum bagging techniques to achieve optimal performance
- Collaborated with peers to design and optimize composite beams for the Student Bridge Competition at the annual SAMPE conference

Solo Project: 3D-Printed Mech

- Created a detailed assembly of a 12 inch tall shelf-size robot figurine in SolidWorks
- Tested ball/socket joint tolerances to ensure full functionality before 3d-printing full-scale model
- Finished model by sanding + hand painting for an aesthetic final product

Adhesives Design, Surface Finishing:

- Collaborated with Boeing mentors to evaluate adhesive performance for aerospace applications across various substrates under a constant load
- Analyzed and compared results with theoretical surface energy values to correlate surface preparation with adhesion effectiveness
- Prepared and surface-treated samples through sanding and finishing techniques to enhance adhesive bonding

Experience

YMCA:

Seattle, WA

June 2024 - Dec 2024

Camp Counselor

- Collaborated with coworkers to guide 50+ kids through various outdoor + indoor activities
- Assisted with daily camp setup and breakdown
- Addressed parent concerns and communicated updates in a timely manner

Team Read:

Seattle, WA

Oct 2022 - Aug 2023

On-Site Leadership Role

- Mentored team of 20+ tutors, resulting in effective 1:1 learning for students
- Led biweekly post-shift meetings, resolving instructional and administrative concerns from staff
- Spearheaded implementation of new learning activities leading to greater student engagement

Skills

- Working knowledge of Java, Python, SolidWorks
- Experience in the following:
 - Microscopy & Imaging:** SEM and optical microscopy, XRD/EDS
 - Spectroscopy:** FTIR, UV-Vis
 - Thermal Analysis:** TGA, DSC
 - Mechanical Testing:** Hardness testing, Stress-Strain Analysis
 - Materials Processing:** Chemical Etching, Investment Casting