

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

- Collaborated with peers to design and optimize composite beams able to withstand <6klb force for the Student Bridge Competition at the annual SAMPE conference
- Assembled and cured prepreg fiber-reinforced composites for use in I-beam creation ensuring precision and consistency in material orientation, using industry standard autoclave and vacuum bagging techniques

Surface Degradation and Optimal Adhesion:

- Collaborated with Boeing mentors to design and present an experiment which evaluated surface preparation effectiveness for adhesive bonding
- Increased performance by 2.5x through controlled cleaning procedures over intentionally degraded surfaces

Solo Project: 3D-Printed Figurine

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

Experience

Material Advantage:

Seattle, WA

Outreach Volunteer

Apr 2025 - Present

- Engaged K-12 students in materials science by teaching concepts such as ductile-to-brittle transitions and supervising hands-on demos involving LN₂, thermal materials, and mechanical testing

YMCA:

Seattle, WA

Camp Counselor

June 2024 - Dec 2024

- Collaborated with coworkers to guide 50+ kids through various outdoor + indoor activities
- Carried out routine cleaning tasks to ensure a safe and orderly environment

Team Read:

Seattle, WA

On-Site Leadership Role

Oct 2022 - Aug 2023

- 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:** SEM, STM, 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