Alberto D. Barragan

Seattle, WA | linkedin.com/in/abarra07

EDUCATION

University of Washington **Seattle, WA**
B.S Aerospace & Aeronautical Engineering | Honors Scholar

Yakima Valley College **Yakima, WA**
Associates in Science - Class of 2025
Honors and Deans List Scholar

RELEVANT COURSE WORK

Engineering Statics	Mechanics of Materials	Physics Series
Thermodynamics	Dynamics	Linear Algebra

WORK EXPERIENCE

Boeing Company — Flight Sciences, Loads and Dynamics Intern (Static Loads Team)

- Performed loads and structural analysis supporting a commercial airplane program
- Developed and ran an analysis database supporting engineering decisions
- Collaborated with aerodynamics and structures experts to improve an analysis process and contribute to an internal engineering tool

Yakima County City Hall — Engineering Department Intern

- Analyzed traffic flow using Excel-based field data and site measurements, and prepared engineering documentation and reports that guided county infrastructure decisions on stop sign, street lighting, and bike lane placement

Yakima Valley Community Foundation — Yakima Youth Leadership Board Member

- Evaluated community grant proposals and helped determine funding allocations supporting local youth programs, while mentoring and coaching younger leaders on the board

OIC Summer Program — Basic Skills Instructor

- Designed and led STEM engineering lessons where students built and tested projects using math and real world engineering concepts, mentoring 30+ students while building confidence, teamwork, and critical thinking skills

SKILLS

Technical:

CAD Inventor, SolidWorks	Excel Data Analysis	MATLAB
Structural & Aeroelastic Analysis	Python Coding	Database Development

Professional:

Adaptability	Cross Functional Collaboration	Growth Mindset
Technical Problem Solving	Effective Communication	System Thinking

EXTRA CURRICULARS

Washington Aerospace Scholar (WAS)
Technology Student Association Mentor
Young Executives of Color (YEOC)
"FOO's" at UW Administrator
Society of Hispanic Professional Engineers
Engineering Club Fellow
Yakima Youth Leadership Council
Alianza Youth Leadership Advocacy

PROJECTS

- Engineered a fixed wing aircraft for maximum flight endurance, optimizing airfoil selection, wing loading, and center of gravity placement to improve lift to drag ratio through iterative CAD design and flight testing, placing 4th at State (2024 and 2025)
- Designed CAD architecture projects using Inventor and SolidWorks, placing 2nd at State (2024) and 3rd at State (2025)
- Designed and built a mechanical trebuchet applying physics based load and trajectory calculations, placing 2nd at State (2025)

AWARDS

Bi-Lingual - Seal of Biliteracy (Fluent in Both Spanish and English)
Awards - President's Award (2020); Principles Award (2021 to 2025); State Architecture, 2nd Place (2024); State Flight Endurance, 4th Place (2024); Dean's List (2024); Yakima School District CTE Recognition (2024); State Flight Endurance, 4th Place (2025); State CAD Architecture, 3rd Place (2025); State Architecture, 7th Place (2025); State Trebuchet, 2nd Place (2025)