

Paul Fallon

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EDUCATION

University of Washington | Seattle, WA

Expected Graduation: June 2024

- BS, *Mechanical Engineering, Biomechanics* (GPA: 3.75/4.0)
- Awards: Dean's List (10/12 Quarters Completed), Introduction to Visualization and CAD SolidWorks Honor

EXPERIENCE

Nano-architected Materials Research Assistant

October 2023 – Present

Meza Research Group | Seattle, WA

- Developed and conducted Abaqus FEA simulation procedures for prestressed nano-tensegrity architectures
- Evaluated and interpreted FEA results and compressive lab experiment trials to validate new mechanical theory

Engineering Design & Field Intern

June 2022 - September 2022

Applied Physics Lab | Seattle, WA

- Collaborated in an interdisciplinary team to design, manufacture, and field-test cutting-edge sonar systems
- Executed individual structural design projects implemented onto lab research vessels
- Manufactured sonar array components and CNC-milled parts, assisted senior engineer in co-learning new 5-axis mill
- Final Project: Designed and manufactured a dynamic sonar mount for our vessel's submersible sensor frame

Dock Staff Assistant Manager

June 2021 – Present

The Electric Boat Company | Seattle, WA

- Managed a team of 5+ employees and efficiently executed daily operations in a seamless rental business model
- Earned the only pay raise of any employee in my time at the company
- Performed maintenance on the fleet of 25+ electric Duffy boats

EXTRACURRICULARS

Executive House Manager & Merchandise Designer

January 2021 – December 2023

Phi Delta Theta Washington Alpha | Seattle, WA

- Renovated and maintained the historic 100+ year-old chapter house for over 60 fellow residents
- Contributed to executive decisions, chapter planning, and provided essential student living amenities
- Managed and executed several large-scale projects such as a commercial kitchen remodel, full-house wifi rewiring, and the reconstruction of a third-story deck

Structural Team Engineer

October 2021 – October 2022

Washington Superbike Team | Seattle, WA

- Assisted in the design and manufacturing of a fully electric motorcycle to compete in the AHRMA Lightning Series Motorcycle Competition.
- Designed a new aluminum frame with one other team member to improve upon the existing, overbuilt steel frame
- Research & Design, SolidWorks, Ansys FEA, regular collaboration & communication with the Mechanical team

Future of Sports Technology Research Assistant

October 2020 – June 2021

UW Human-Centered Design & Engineering | Seattle, WA

- Selected as a freshman for an 11-member research team
- Designed and developed conceptual sports devices focused on performance tracking and data collection
- Shot three short films to promote discourse on the presence and future of sports technology in collegiate athletics
- Presented final work to a graduate program panel

SKILLS

- Fixture Design, CNC Milling, Lathe, Waterjet, Laser-cutting, General Fabrication, 3D Printing
- SolidWorks, ANSYS Mechanical, Abaqus, MS Office, MATLAB, Python, Java (basic), Adobe Illustrator & Photoshop