

Wilson Harper

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wilsonharper.net

Houston, TX

Education

Rice University

Class of 2029

- B.S. Electrical & Computer Engineering; Minor in Entrepreneurship
- Serving freshman class as New Student Representative in Martel College parliament

Davis High School

2021 - 2025

- Served 2300+ students as Student Body President with \$63k budget
- Earned IB diploma with 3.99 GPA and WA State Seal of Biliteracy in Spanish

Technical Experience

Avionics Design, Rice Flight

2025 - Present

- Leading the design of thrust test stand to measure efficiency for UAV optimization
- Programming and integrating Arduinos with load cells, current sensors, etc. to collect data

Active Fin Stabilization, Rice Eclipse Rocketry

2025 - Present

- Designing avionics for rocket active fin stabilization system
- AFS system will go on space-shot rocket to exceed the Kármán line

Chapter President & National Voting Delegate, Technology Student Association

2018 - 2025

- Served as chapter president and national conference voting delegate for 50+ students
- Won 6 state-level awards and qualified for national contest three times
- Led creation of fully open-source UAV from conception to completion

Researcher, MIT Lincoln Laboratory RISE

2024

- Selected from top 4% of applicants for free residential program at DoD-sponsored FFRDC
- Researched, built, and programmed Doppler and synthetic aperture radars
- Gained experience in soldering, CAD, signal processing, and research, mentored by Lincoln Labs staff

Project Lead, University of Washington Aerospace Scholars

2023-2024

- Served as Mars Rover Project Lead, developing outlines and designs for multiple Mars rovers
- Presented research on viable manned Mars vehicle to industry professionals

General Experience

Summer Camp Staff, Spokane, WA

2025

- Responsible for up to 65 guests at remote location accessible only by boat
- Learned high-stakes logistics planning due to remote environment
- Duties ranged from comforting homesick children to cleaning large amounts of septic waste

Board Co-Chair, Yakima Valley Community Foundation Youth Leadership Council

2023 - 2025

- Allocated \$100,000+ in funding to local nonprofits
- Evaluated 30+ grant applications with community leaders' mentorship

Skills

- **Programming:** Python, ArduPilot, CAD (Fusion 360, OnShape), Soldering, Avionics Systems
- **Hardware:** Soldering, UAV design, LiDAR, Telemetry, 3D Printing