

Wilson Harper

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wilsonharper.net

Houston, TX

Education

Rice University	Class of 2029
<ul style="list-style-type: none">• B.S. Electrical & Computer Engineering; Minor in Entrepreneurship• Serving freshman class as New Student Representative in Martel College parliament	
Davis High School	2021 - 2025
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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