

OBJECTIVE

Dynamic and results-oriented Mechanical Engineering student with a 4.0 GPA and experience in advanced mechanical design, stress analysis, and manufacturing optimization. Recognized for applying engineering knowledge to solve complex technical challenges and mitigate critical failure points. Adept at developing solutions to propel development and elevate agility.

EDUCATION

BS Mechanical Engineering @ Washington University | St Louis, MO

May 2028

Coursework: Dynamics, Statics and Mechanics of Materials, Advanced CAD, Materials Science, Circuits for Mechanical Engineering, Engineering Math A/B

EXPERIENCE

Manufacturing/Ergonomics Engineer @ WashU FSAE | St Louis, MO

August 2025 - Present

- Manufactured caliper brackets, suspension arms, and brake buttons using ACRA and Clausing Lathes, completed design for manufacturing reviews, providing input to improve structural integrity
- Integrated braking system controls focusing on balance bar setup to optimize brake bias and reduce lateral movement during driving

Payload Engineer @ WashU VTOL | St Louis, MO

August 2025 - Present

- Executed mechanical design and 3-D modeling of payload features for a novel VTOL aircraft, focusing on precise weight and balance distributions using FEA simulations for optimal flight
- Conducted stress, strain, and vibrational analysis for rotor drive system, identifying and mitigating critical failure points

IT Summer Intern @ Farella Braun-Martel LLP | San Francisco, CA

May 2025 – July 2025

- Optimized Action I machine updates for redundancy, Virtual Machine migration between Hyper-V hosts optimizing performance, updated wiring and firmware on 150 machines per company standards
- Developed organizational system for 119 offices, supported IT Help Desk assisting 25+ attorneys

INVOLVEMENT AND LEADERSHIP

- **Dave Nolan Scholarship Winner:** Selected by Varsity Head Coach out of 20 players to represent commitment to the continued success of the Orinda Baseball Association,
- **School Liaison @ WashU First Generation Investors:** Coordinated FGI program with Gateway High School tutoring 30+ students, verified background checks for 23 tutors
- **Clubs:** WashU Racing (FSAE), WashU VTOL, First Generation Investors, Engineers Without Borders, Washington University Student Investment Fund (WUSIF), WashU PUSO, Club Baseball

SKILLS AND INTERESTS

Skills: MATLAB, 3-D Modeling, Java, Microsoft Office, Excel, Azure, PowerShell, Communication, 35 ACT Score

Interests: Coin Collecting, Chess, Surfing, Baseball Statistics, Automotive Sports, Basketball