
PROFESSIONAL SUMMARY

High-achieving Mechanical Engineering student with a strong aptitude for manufacturing operations, process optimization, and data analysis. Proven ability to support production goals through ergonomic design, hands-on fabrication, and Lean-aligned problem solving. Eager to apply a pioneering spirit and analytical mindset to real-world manufacturing challenges.

EDUCATION

Mechanical Engineering (Expected Graduation Date: May, 2028)
Washington University, St. Louis, MO

GPA: 3.92/4.0

Relevant Coursework: Differential Equations, Engineering Mathematics A&B, Dynamics, Machine Shop Practicum, Advanced CAD, Materials Science, Circuits for Mechanical Engineering

EXPERIENCE

Manufacturing/Ergonomics Engineer - WashU Formula SAE

August 2025 - Present

- Executed Design-for-Manufacturing (DFM) reviews to improve structural integrity and streamline the production of caliper brackets and suspension control arms
- Utilized ACRA lathes to manufacture high-precision cylinder heads and suspension components, ensuring adherence to strict tolerance specifications
- Integrated industrial engineering principles into braking system controls, optimizing the pedal box and steering wheel layout to enhance driver reaction time and vehicle performance.

Payload Engineer – WashU VTOL

August 2025 - Present

- Executed mechanical design and 3-D modeling of payload features for a novel VTOL aircraft, focusing on precise weight and balance distribution using FEA simulation to ensure optimal flight characteristics
- Conducted stress, strain, and vibrational analysis for the rotor drive system, identifying and mitigating critical failure points prior to prototype assembly working in teams of 3-5 people

IT Summer Intern - Farella Braun + Martel LLP

May 2025 - July 2025

- Optimized Action 1 machine updates with system administrators, migrated machines between Hyper-V hosts targeting redundancy, used Microsoft Azure to monitor users and machines
- Developed a new technological organization system for 119 offices, participated on IT Help Desk providing user support, updated firmware on 250 machines per company standards

INVOLEMENT

- **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 at WashU First Generation Investors:** Coordinated and led the FGI program with Gateway High School tutoring 30 students, worked with VP to verify background check compliance for 25 tutors
- **Clubs:** WashU FSAE, WashU VTOL, First Generation Investors, Engineers Without Borders, WashU Student Investment Fund (WUSIF), WashU PUSO, Club Baseball

SKILLS AND INTERESTS

- **Skills:** MATLAB, 3-D Modeling, Data Analysis, Java, Design for Manufacturing(DFM), PowerShell, Microsoft Office, FEA Simulation, Azure, Communication
- **Interests:** Coin collecting, Chess, Surfing, Baseball Statistics, Automotive Sports, Basketball

