

Oliver Husmann

Bend, OR 97702

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EDUCATION

Bachelor of Science (B.S.) - Mechanical Engineering

May 2025

Northern Arizona University, Flagstaff, AZ

- SAE Baja Team (2024-2025)– Front Suspension and Knuckle Design
- Designed and optimized the front suspension for an off-road competition vehicle.
- Conducted FEA simulations in SolidWorks to validate knuckle and suspension mounts.
- Analyzed bending stress, fatigue resistance, and material selection for durability under extreme loads.
- Gained hands-on experience operating a manual mill to manufacture precision components for suspension systems.

SKILLS

- Engineering & Design: SolidWorks, RISA-2D, MATLAB, Finite Element Analysis (FEA)
- Technical Tools: Excel for engineering calculations
- Machining & Manufacturing: Precision machining, tolerances, material selection, fatigue analysis
- Prototyping & Fabrication: Hands-on prototype building and testing
- Structural Analysis: Bending stress, fatigue resistance, and safety factor evaluation
- Leadership & Collaboration: Team-based engineering projects, hands-on troubleshooting

EXPERIENCE

JUNE 2024-AUGUST 2024

Merchandising Associate

BlackStrap | Bend, OR

- Tagged new products, updated prices, and ensured accurate inventory labeling.
- Assisted in custom design printing using a large roller for fabric production.
- Organized and maintained warehouse stock, ensuring efficient order fulfillment.

MAY 2023-AUGUST 2023

Engineer Intern

Tye Engineering | Bend, Oregon

- Assisted in land surveying activities, spending 5-8 hours daily in the field
- Conducted landscaping and maintenance tasks around the office premises
- Supervisor: Dirk (541-408-3647)
- Worked with AutoCAD

JULY 2021-AUGUST 2021

Mountain Bike Coach

Mt. Bachelor | Bend, Oregon

- Served as a downhill mountain bike coach and camp counselor
- Supervised children aged 8-14 with varying skill levels
- Organized weekly rafting trips for the kids
- The first week was an outdoor camp where I taught the kids different skills around the mountain in the summer
- This was a trial camp so there was a bunch of reflection
- Supervisor: Greg Dixon (541-948-5349)

OCTOBER 2020-DECEMBER 2020

Warehouse Worker

CushCore Inc | Bend, Oregon

- Conducted quality checks on tire inserts by measuring width
- Packed products and loaded them onto pallets
- Supervisor: Randle (207-779-4882)

PERSONAL INFORMATION

Available: Ready to Work June 2025

PROFESSIONAL SUMMARY

Results-driven mechanical engineering student at Northern Arizona University, graduating Spring 2025, with hands-on experience in mechanical design, structural analysis, and manufacturing processes. Specializing in FEA, suspension systems, fatigue analysis, and engineering calculations, with strong skills in SolidWorks, RISA-2D, MATLAB, and Excel. Experienced in machining, prototyping, and material selection, ensuring durability and precision in engineering applications. As a key contributor to the SAE Baja Team, I have designed and optimized front suspension and knuckle components, validated designs through FEA, and gained manual machining experience. Passionate about problem-solving and innovation, I thrive in team-based engineering environments, applying critical thinking, data analysis in Excel, and hands-on expertise to real-world challenges.

VOLUNTEER

JULY 2017-AUGUST 2018

Service Work

Rustic Pathways | Peru and Mongolia

Dug trenches for clean water systems in rural Peru.

Taught English, laid cement patios, and organized food drives in Mongolia.