Vinh Ha

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EDUCATION

Gonzaga University Spokane, Washington
Bachelor of Science: Mechanical Engineering May 2027
Minor: Robotics

- GPA: 3.89 | Dean's List | Fall 2023, Spring 2023, Fall 2024, Spring 2025, Fall 2025
- Honors: Tau Beta Pi Engineering Honor Society (Top 8% of Junior Class)
- Relevant Coursework (In Progress through Spring 2026): Mechanical Design, Machine Design, Manufacturing Processes, Fluid Mechanics, Thermodynamics, Heat Transfer, Mechanics of Material, Python Programming, Circuit Analysis

EXPERIENCE

SCAFCO Steel Stud Company Spokane, Washington
Mechanical Engineering Intern May 2025 – August 2025

- **Lumber Waste Reduction Project:** Streamlined packaging lumber inventory by 36% through samples measurements and Excel analysis, reducing cutting time, minimizing waste, and optimizing wood placement across machines.
- **Slit Coil Material Savings Project:** Conducted dimensional analysis of 100+ steel stud samples with calipers; developed an Excel macro to automate tolerance parsing, enabling faster evaluations and roughly $20,000 in annual material savings.
- **Coil Bay Layout Optimization Project:** Updated 110,000 square feet plant map in AutoCAD using field measurements and analyzed steel coil usage to design a consolidated layout that cut crane travel time and improved operator access.
- **Line Efficiency Analysis Project:** Performed time studies and fault analysis on soundproof studs robotic assembly line; identified a magazine feeding issue that once fixed reduced jams by 70%.
- **Troubleshooting Guide Project:** Authored English and Russian troubleshooting guides for roll forming machines, detailing diagnostic workflows, controller interface checks, and interlock procedures, leading to less routine operator errors.
- **Surplus Recovery Project:** Cataloged, organized, and packaged 1,500+ lbs. of surplus parts, estimated resale value, and contacted surplus-buying companies to initiate recovery efforts, resolving a 15-year-old warehouse issue.

Gonzaga University – Herak Manufacturing Technology Center Spokane, Washington
Manufacturing Technician August 2024 – Present

- Execute shop and engineering club projects by operating 3 axis Haas CNC mills, lathes, MIG welders, plasma cutter, 3D printers and power tools, meeting delivery deadlines and specified tolerances.
- Supervised and trained 30+ students and new employees on machining fundamentals, enabling independent project completion while ensuring compliance with shop safety.
- Produced CAD drawings in SolidWorks to support rapid prototyping and student project development.

Gonzaga Society of Automotive Engineers Spokane, Washington
Club Member & Baja Car Contributor August 2024 – Present

- Applied machining and fabrication skills to build components for the Baja SAE competition vehicle.
- Collaborated with team members to troubleshoot assembly challenges and support iterative design improvements during the build process.
- Enabled new members to progress from observing to hands-on work by coaching essential hand tool and fabrication skills.

PROJECTS

- **SolidWorks Piston Assembly and FEA:** Recreated a complex piston sub-assembly from caliper measurements, performed Finite Element Analysis for thermal expansion, shear stresses and combined into animated assembly.
- **Aluminum Bishop Chess Piece:** Modeled an aluminum Bishop chess piece in SolidWorks, machined the part and integrated it into official school project catalog for training students and employees in manual lathe and mill operations.
- **CNC Business Cardholder:** Designed a business cardholder in SolidWorks under tight material and budget constraints, and generated Fusion CAM toolpaths for 3-axis Haas machining with custom name engraving for graduating seniors.

SKILLS

- **Technical:** Excel, SolidWorks, Fusion 360, Ansys FEA ,GD&T, Python, CNC Machining, MIG/TIG welding, Six Sigma
- **Language:** English, Vietnamese