

Max Peinkofer

558 J ST, Salt Lake City, UT - 84103 | (707) 494-4296 | maxpeinkofer2003@gmail.com

Education

Lehigh University, Bethlehem, PA

Graduated: May 2025

Bachelor's in Mechanical Engineering, Minors in Energy Engineering and Product design GPA 3.35/4.00

Experience

Mechanical Engineering Intern - Wine Country Conveyor, Sebastopol CA May 2023 - June 2026

- Designed and modeled improvements to overhead box conveyor systems in SolidWorks, developing and evaluating components for manufacturability and installation.
- Designed and prototyped a tool for rapid disassembly and reassembly of tabbed conveyor chains.
- Assisted with on-site installation, assembly, and modification of industrial conveyor equipment.
- Surveyed winery production facilities to assess existing bottling lines and gather measurements for new equipment installations.

Apprentice Teacher - Special topics in Metalworking Design

August - December 2024

- Prepped materials, provided expertise and critique for students' design projects.
- Led TIG welding lessons for students in the course.

Shop Monitor - Design Labs, Lehigh University

January 2023 - May 2025

- Instructed and supervised students to safely use woodshop and metal shop machinery and tools.

Harvest Intern - Radio Coteau Winery, Sebastopol CA

June 2025 - August 2026

- Managed tasks critical to the production of the Wine.
 - Repaired and constructed tank thermostats, tools, hoses, fittings, pipes
 - Hours of experience operating and performing maintenance on forklifts.
-

Projects

Capstone Project - Westlake Pipe & Fittings

- Designed and built a test apparatus to evaluate an internally restrained PVC joint through 1 million pressure cycles in accordance with ASTM F1674.
- Performed FEA simulations to evaluate stresses and identify opportunities for design improvements.
- Utilized FEA simulations to offer design improvements of the internally restrained joint.

Automotive Mechanical Work

- Performed hands-on maintenance and mechanical repairs on a Porsche 550 Spyder replica, Jeep Wrangler, and Toyota 4Runner, including suspension, steering, braking, axle, and hydraulic systems.
-

Skills

Certifications - Mechanical Design in SolidWorks, Wilderness First Aid, CPR, OSHA forklift.

Manufacturing & Fabrication:

Machining, Welding (TIG and MIG), Woodworking, Prototyping, Mechanical Assembly

Software - Familiar with: SolidWorks, Microsoft Office Suite, Java, Python, MATLAB, LabView, Adobe Applications, Ansys (FEA)

Activities

Cycling Club President - Orchestrated group rides and races, Responsible for administrative work.

D1 Ultimate Frisbee - Dedicated 12 hours to practice a week and 3-5 tournaments per semester.

Outing Club Officer - Led students on backpacking, climbing, surfing, and hiking trips.

Member of: Lehigh ASME, Lehigh IDSA, Car Club, Skiing and Snowboarding Club, Climbing Club