

Jimmy Pare

MECHANICAL ENGINEERING STUDENT

Saint Albans, VT | 802 752 6511 | jimmypare7@gmail.com

Summary

Motivated fourth-year mechanical engineering and physics student with experience in semiconductor manufacturing, CAD software, and certified in finite element analysis software. Business owner and Dean's List student passionate about finding creative and practical solutions to real world engineering challenges.

Education

The University of Vermont, BS Mechanical Engineering

Expected Graduation: May 2026

Minor: Pure Physics | **GPA:** 3.78 Cumulative | **Honors:** Dean's List 2023, 2024, & 2025

Unique and Relevant Courses: Computational Solids Engineering (Abaqus), Mechatronics, Compressible Flow.

Certification: Certified in Abaqus from the UVM Department of Mechanical Engineering.

Senior Capstone: Developed an automated laser engraving system with a focus on manufacturability.

Electromechanical design operates using a microcontroller, solenoid actuation, and a rail system for capacity.

Skills

- CAD Software:** SolidWorks, AutoCAD, Onshape, Abaqus.
- Technical Skills:** CNC operation, 3D printing, woodworking, hand & power tools, metrology tools.
- Programming:** Python and experience with C++.

Experience

GlobalFoundries - Equipment Engineering Intern

May 2025 – Aug 2025

- Implemented IPA and N₂ flow detection on cutting edge semiconductor manufacturing equipment, improving product quality and reducing risk of scrapped wafers.
- Installed data acquisition cards, industrial grade computers, and data processing software to relay critical information in an efficient and secure manner.
- Troubleshooted and repaired motors for exhaust ventilation, saving \$2,300 per motor.
- Utilized statistical process control to monitor tool health and manufacturing performance.

Jimmy's Home and Yard Care - Owner

July 2022 - Current

- Founded and currently manage a general contracting business serving 100+ clients across three counties, including many repeat customers. Primary workload consists of carpentry, drywall, painting, and flooring.
- Oversaw maintenance of 12 estates in 2024 and handled all aspects of operations, including client communication, budgeting, and project execution.

Ace Hardware – Sales Associate

Jan 2021 – Jun 2021

- Resolved customer concerns efficiently in high stress situations while maintaining professional demeanor.

Bruley and Bruley Construction - General Laborer

Jun 2020 – Aug 2021

- Assisted in a wide range of construction processes including carpentry, drywall, and painting while coordinating with management, engineering, and the customer.