

Jimmy Pare

MECHANICAL ENGINEERING STUDENT

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Summary

Motivated fourth-year mechanical engineering and physics student with a strong foundation in CAD software, FEA analysis, and communication. 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:** 3.76 Cumulative | **Honors:** Dean's List 2023, 2024, & 2025

Unique and Relevant Courses: Computational Solids Engineering (ABAQUS), Computational Mechanical Engineering Lab (SolidWorks Simulation), Compressible Flow, Computational Physics, Mechatronics.

Skills

- **CAD Software:** SolidWorks, AutoCAD, Onshape, ABAQUS.
- **Technical Skills:** CNC machining, 3D printing, woodworking, hand & power tools.
- **Programming:** Python and 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.
- Troubleshoot 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 manage a general contracting business serving 100+ clients across three counties, including many repeat customers.
- 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 2020**

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