

Ohm Patel

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EDUCATION

University of Toronto

Master of Engineering in Aerospace Engineering

Toronto, Canada

September 2024 – May 2026

Queen's University

Bachelor of Applied Science in Mechanical Engineering

Kingston, Canada

September 2018 – May 2023

WORK EXPERIENCE

Tenstorrent

IC Packaging Engineer

Toronto, Canada

August 2026 – Present

- Building next generation advanced packages!

Mechanical Simulation Intern

January 2026 – August 2026

- Built thermo-mechanical Ansys APDL models to quantify package-level warpage in FOCoS 2.5D architectures with heterogeneous chiplet and interposer integration.
- Optimized stiffener ring geometries to balance package warpage and die corner stress by developing a predictive surrogate model in Python.

Red Rabbit Robotics

Hardware Engineering Intern

Vancouver, Canada

May 2025 – August 2025

- Developed and integrated the hardware systems for humanoid robots, ensuring they were reliable and manufacturable.
- Designed 7-DOF robotic arms in SolidWorks in accordance with ASME GD&T standards, and oversaw CNC and sheet-metal fabrication with overseas suppliers.
- Prototyped 3D printed test rigs to validate robotic arm designs, test servo motor performance, and calibrate LiDAR and depth cameras.

Howmet Aerospace

Quality Engineering Intern

Georgetown, Canada

June 2023 – October 2023

- Analyzed defect data to develop and implement quality assurance processes to ensure product compliance with AS9100D aerospace standards and created 50+ work instructions for the investment casting manufacturing processes.
- Performed root-cause analyses to identify the source of defects and recommended preventative measures by collaborating with the production floor.

Parks Canada

Project Engineering Intern

Peterborough, Canada

May 2021 – August 2022

- Supported the project managers to facilitate the successful completion of \$3M – \$10M marine infrastructure projects through design verification, project documentation, budget management, site inspections, and equipment testing.
- Designed solar-powered dam water level sensor using SolidWorks to develop mechanical housings, mounting hardware, and internal electronics packaging.

Enerflex

Mechanical Engineering Intern

Abu Dhabi, UAE

June 2020 – September 2020

- Collaborated with senior engineers on equipment sizing for upstream oil & gas applications through calculations, material selection, and evaluation of technical design documents.
- Assisted in the development and revision of P&IDs and PFDs for the compressor systems.

TECHNICAL SKILLS

Design & Analysis: SolidWorks, Ansys (Mechanical, Fluent), Altair Hyperworks, Altium Designer

Programming: Python, MATLAB, Simulink

Manufacturing & Hardware: 3D Printing, CNC Machining, Soldering, Arduino

Technologies: Microsoft Office Suite (Word, Excel, PowerPoint), Linux