

Hussainali Saiyed

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Professional Summary

Mechanical Engineering graduate specializing in the integration of mechanical hardware and intelligent control systems. Experienced in industrial automation, process optimization, and data-driven project coordination. Proven ability to streamline complex workflows using Python and Excel, with a strong focus on technical precision and systems thinking.

Education

Sheridan College Institute of Technology

Bachelor of Engineering, Mechanical Engineering

Brampton, ON

Sep. 2021 - Aug. 2025

Relevant Coursework: Industrial Safety, Fluid Mechanics (Piping/Hydraulics), Electrical Circuits, Materials Science.

Technical Skills

Automation & Design: PLC Programming (Siemens S7), SolidWorks, AutoCAD, Robotics, MATLAB

Data & Software: Python (Pandas, Matplotlib), MS Excel (VBA/Macros), PowerBI, LaTeX, Git

Process Engineering: Lean Six Sigma, Root Cause Analysis (RCA), DMAIC, Quality Control

Project Controls: RFI/Submittal Logs, Site Scheduling, HSE Compliance, Procurement Tracking

Engineering & Industrial Experience

Sheridan College

Mechanical Engineering Intern

Brampton, ON

Jan 2025 - Aug 2025

- Implemented Continuous Process Improvement strategies by analyzing process metrics in Excel, reducing project documentation bottlenecks.
- Monitored technical data streams and project milestones to ensure synchronization across engineering teams.
- Authored technical reports and standardized documentation for executive stakeholder review.

Pumps Manufacturing

Automation Technician (Co-op)

Gujarat, India

May 2024 - Aug 2024

- Troubleshoot automated pump systems and equipment, maintaining strict adherence to industrial quality standards.
- Developed daily operational reports to track equipment uptime, identifying trends to improve maintenance cycles.
- Collaborated with production teams to resolve hardware-software interface issues on the manufacturing line.

Landscaping Company Limited

Project Coordinator (Co-op)

Gujarat, India

May 2023 - Aug 2023

- Directed site resources and daily schedules for multi-phase projects, maintaining 100% on-time delivery.
- Managed project budgets through meticulous procurement logging and material cost tracking.

Key Projects (Technical Portfolio)

Real-Time Data Acquisition System | STM32, Embedded C, Data Visualization

2025

- Engineered a hardware-software interface using STM32 to capture real-time analog voltage data.
- Developed logic to translate raw sensor signals into visual monitoring trends for system diagnostics.

RFI & Submittal Log Simulator | Excel, Logic Modeling, ACONEX Workflow

2025

- Created an automated tracking tool to simulate industrial project document control (RFI/Submittals).
- Integrated deadline-alert logic to identify potential schedule risks before they impacted critical paths.