

# Maunil Patel

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## SUMMARY OF QUALIFICATIONS

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- Strong problem-solving and troubleshooting skills developed through PCB circuit design, robotics projects, microcontroller programming, and working with BLE.
- Demonstrated leadership through directing STEM Club and coordinating robotics and team projects.
- Effective communicator with experience managing events, leading teams, and mentoring peers.
- Member of University of Waterloo, Institute of Transportation Engineers (ITE) student chapter

## SKILLS

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- Programming languages: C++ (basic), Java (basic), Python (basic).
- Computer software: Microsoft Office, Google Workspace, SolidWorks (basic), Express PCB, Express SCH.
- *Language Skills*: English (Fluent), Gujarati (Intermediate).
- Transferable Skills: Organization, adaptability, teamworking, problem solving, and attention to detail.

## PROJECTS AND EXTRACURRICULARS

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### Sumo Robot

December 2025

- Designed and assembled custom PCB circuits to integrate sensors and SN754410 motor driver for autonomous control.
- Programmed and integrated the ATmega328P microcontroller in C++ to process sensor inputs, control motors with PWM, and display outputs on an LCD.
- Tested, soldered, and debugged circuits using structured troubleshooting, improving system reliability.

### Rock-Paper-Scissors Game (ATTiny85 PCB Project)

December 2024

- Manufactured, soldered, and designed PCB using express PCB and express SCH
- Assembled and soldered components, tested functionality, and debugged both hardware and software.
- Programmed an ATTiny85 microcontroller in C++ to generate random outcomes and control LED outputs.

### First Robotics Team 2702 Member

September 2024 – April 2025

- Modeled subsystem components in SolidWorks and assisted in prototyping to produce a functional component.
- Coordinated with a team of 40+ members to meet strict competition deadlines under time-sensitive conditions

### STEM Club Director

September 2024 – June 2025

- Organized and facilitated weekly meetings for over 50+ attending students.
- Worked with a team of leaders to effectively distribute the use of funds over the school year.
- Spearheaded and advertised school-wide STEM events that increased student engagement and club membership

## EXPERIENCE

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### Kitchener's Finest Basketball Team Coach

September 2023 – May 2025

- Assisted in organizing community basketball events and managing logistics.
- Supported technical setup (scoreboards, event communications).
- Developed teamwork and leadership skills through coordination with staff and participants.

## EDUCATION

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### BASc in Electrical Engineering

September 2025 - Present

*University of Waterloo, Waterloo, Ontario*