JAYSHEEL PATEL

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SUMMARY OF QUALIFICATIONS

- **3 years** of experience with **CAD** using tools such as **Solidworks**, **Onshape** and **AutoCAD**. Two years of formal **PCB** design training, and experience leading a **student-built electric car**. Experience leading a group of 30 students through four competition seasons of robotics design in high school, including **three years as team president**.
- **4 years** of experience in **team management, leadership** and **regional event coordination** through my roles as President of the PHS Robotics team, Executive and lead designer for the PHS Electric Car Team, and Regional Coordinator and Regional Core Team Member for BAPS Swaminarayan Sanstha.
- Extensive work experience with **Office 365, G-Suite, Box** and other such systems

TECHNICAL SKILLS

CAD Certifications: Introduction to **Sketching**, **Parametric Feature-Based CAD**, **Part Studios**, Onshape **Assemblies**

Electrical: 2 years of formal PCB design and layout instruction, 4 years of experience with **breadboard prototyping**(50+ projects), analog/digital circuitry, arduino(**using C++**), and robotics through the computer engineering courses offered in high school.
Fabrication: 3D printing, Laser cutting, and various shop tools such as table saws, drills press, lathe, miter saw, grinder, belt sander

ENGINEERING EXPERIENCE

Special High School Skills Major in Information and Communications Technology
Pickering High School | Sept 2024 - 2026

- **50+** breadboard Prototyping Projects, **10+** PCB Designs, worked on **analogue/digital circuitry**
- Attended **4 hackathons** where I developed and **prototyped solutions** to waste management and clean energy, trained a **machine learning model** to recognize traffic signs, self driving car that analyzed its environment to generate physical output

President and Lead Designer, VEX/Skills Ontario Robotics Team
Pickering High School | President 3 seasons, member 1 season | Sept 2022 - June 2026

- Designed and manufactured **8 robots** across **4 competition** seasons that performed tasks involving **object manipulation** and live data input/out outlined in competition documents resulting in **4 regional wins** and **4 time provincial playoffs qualification**
- Designed custom components such as hinges, intake cones, gears, mounting brackets, claws and sensor enclosures using **Solidworks** and **onshape** and produced them in-house using **3D printers, laser cutter, welding and CNC Machines**
- Led the selection process of 35 members from a pool of 70 applicants
- Secured funding from the Town of Ajax, Ontario Power Generation, and Ontario Tech University to help fund materials

Executive and Frame Lead, Electric Car Club
Pickering High School | Sept 2024 - 2026

- Designed **5+ iterations** of the vehicle **chassis** of the student-built electric car using **CAD** while documenting for future students
- Developed and tested a **custom** motor controller **schematic** and **PCB** design resulting in reduced cost and easy replaceability

VOLUNTEER EXPERIENCE

Regional Coordinator and Regional Core Team(RCT) member at BAPS Swaminarayan Sanstha
*BAPS Swaminarayan Sanstha is a spiritual, volunteer-driven fellowship dedicated to improving society through individual growth by fostering the Hindu values of faith, service and global harmony | **1900+ Volunteer Hours** | Sept 2022 - present*

- **Regional Liaison** for **all BAPS** centers east of Toronto in Canada, ensuring centralized quality of messaging across all centers
- **Overseeing** a team of **20+ volunteers** in organizing weekly youth classes for **100+ attendees** aged 6-14 years old by organizing weekly team meetings, preparing keynote speeches, presentations, and activities
- Coordinating various charity projects such as walkathons and monthly spiritual celebration programs with live Indian classical singing, multiple live stage performances, speeches and multimedia production

EDUCATION

Toronto Metropolitan University Bachelor of Engineering, Mechatronics - First Year Sept 2026 - Present

Pickering High School Graduated June 2026

- **Honour Roll**, grades 8 through 12 (80%+ average each year)
- Top Academic Award, **highest GPA** in graduating elementary class.
- **Highest Proficiency** - Computer Engineering