

Zain Ali

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EDUCATION

Lassonde School Of Engineering - York University

Bachelor of Engineering (Specialized Honours)

Toronto, ON

Expected - 2031

Northview Heights Secondary School

Ontario Secondary School Diploma

Toronto, ON

Sept. 2022 - June 2026

EXPERIENCE

Tech Crew Lead

Volunteer

Oct 2020 - June 2024

Toronto, ON

- Provided technological support to staff and students across middle and high school.
- Set up and maintained audio/visual systems including microphones and projectors for school events.
- Served as primary technology resource for staff, diagnosing and resolving hardware and software issues across classroom equipment.

Canvasser

NDP party

June 2025 - July 2025

Toronto, ON

- Helped organize events in the community.
- Canvassed door-to-door across Toronto, engaging with residents about local issues and to gather community feedback.
- Assisted with event setup, cleanup, and general logistics to ensure smooth operations.

Volunteer Food Server

Community Organization

Feb 2025 - March 2025

Toronto, ON

- Helped Prepare and serve 150+ plates of food daily.
- Facilitated operations at the center, Ensuring cleanliness and smooth workflow.
- Greeted guests, directed seating, refilled dishes, and managed crowds.

EXTRACURRICULAR ACTIVITIES/CLUBS

First Robotics Competition | Team Captain - 6632

Sept 2024 - June 2026

- Started and led Team 6632, a 50+ member FIRST Robotics Competition team. Led robot design, build, Programming, and competition strategy sub-teams.
- Wrote sponsorship proposals and grant applications to secure \$35,000+ in team funding/parts/services, and managed purchasing of robot parts, hotels and transport.
- Led the team to back-to-back Ontario Provincial Championship qualifications, its first since a 5-year gap, and earned the team's first-ever Excellence in Engineering award.
- Used Computer-Aided Design (CAD) software for robot design. CAM, CNC, and laser cutting technologies for manufacturing components.
- Implemented closed-loop control systems in Java for autonomous scoring, target alignment, and subsystem deployment/retraction, eliminating the need for manual driver input.

First Tech Challenge | Team Captain - 22150

Sept 2025- March 2026

- Started and led team 22150 an FTC team with 2 other members.
- Created a robot with an automatic sorting system, adjustable trajectory shooter and omnidirectional drivebase.
- Won the Design Award, given to those demonstrating industrial design principles, balancing form, function, and aesthetics across the robot's mechanical systems.

Steam ICAC | General Executive

Nov 2025 - May 2026

- Assisted 5+ groups in development in their projects.
- Used CAD and 3D printing to create working prototypes to solve real life problems.
- Contributed to teams that won first overall and third overall.

SKILLS

Technical Skills: Java, Python, C/C++, Fusion 360, SolidWorks, Onshape, KiCad, Git, VScode, Microsoft 365, G-Suite
Hardware & Shop: Embedded systems, electronics soldering, 3D printing, CAM/CNC, Manual Machining (Mill, Lathe, bandsaw, etc)