Shayan Siddiqui

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Trilingual Engineering student at McMaster University with hands-on experience in robotics, mechanical prototyping, and systems thinking. Recognized through the Tech Under 20 competition for building award-winning hardware projects, I enjoy taking ideas from concepts and working on prototypes. I bring a balance of technical curiosity and leadership, having led student teams, mentored peers, and worked in fast-paced real-world environments. I'm motivated to keep developing my engineering skills through challenging, hands-on opportunities.

Work Experience

Produce Clerk | Sobeys   **Aug 2023 - Present**

- Contributed to a 20% improvement in department secret shopper score through product quality and customer service
- Balanced part-time work with academics, demonstrating reliability and time management

Front End Developer | Unmatched Property Maintenance and Services inc.   **Jul 2024 – Sept 2024**

- Designed and developed a responsive business website as the front-end developer, improving user experience for property maintenance services including lawn care, snow removal, and pressure washing
- Implemented layout and navigation improvements that led to a 20% increase in usability and engagement within 10 days
- Ensured 95% site uptime post-launch through ongoing maintenance and performance monitoring
- Worked directly with the client to gather requirements and iterate on design feedback throughout the development process

Technical Projects

Adaptable Litter Talking Robot (ALTR) | Tech Under 20 Cup

- Designed and built a remote-controlled litter-collecting robot for a province-wide tech and business competition with 20+ teams, contributing to an initiative that has provided $40,000+ in student funding over five years
- Led mechanical design, electronics integration, and rapid prototyping, assembling the chassis, integrating motors/microcontrollers, and iterating using 3D printing and basic CAD to improve reliability
- Validated performance through functional testing and judge evaluations, resulting in the robot winning Best Tech Team for strongest and most complete prototype ($100 award)

Robotic End-Effector System (Q-Arm) | McMaster Engineering

- Designed and prototyped a mechanical gripper for a robotic arm to simulate automated warehouse pick-and-place tasks
- Led CAD modeling, 3D printing, Python programming, and iterative mechanical testing, producing 5+ prototypes and refining grip strength, alignment, and overall reliability
- Programmed and validated arm movements through 20+ test cycles using Python-based control commands, achieving a 90% successful pickup-and-placement rate and incorporating design-review feedback to improve precision

Professional Development

Chapter Head of Tech Under 20   **2023-2024**

- Mentored 20+ students per term in prototyping, pitching, and problem-solving for technology-based competitions
- Achieved 80% of participating students advancing to the final stages of the Tech Under 20 competition through mentorship and guidance
- Prepared members for external competitions and industry-focused events, helping students gain confidence, technical experience, and exposure to entrepreneurship

Co-President | Muslim Student Association   **2023- 2024**

- Organized and led events, meetings, and initiatives serving 200+ students across the school community
- Coordinated 5+ large-scale events including guest speakers, cultural programs, and community gatherings
- Managed logistics, scheduling, and communication with staff and administration to ensure smooth execution of events
- Helped grow active membership by approximately 2% per quarter through outreach and inclusive programming
- Collaborated with a leadership team to plan programming, delegate responsibilities, and support new members

Lead Organizer | McMaster Venture Academy (Engineering Summer Camp)   **2023- 2024**

- Supported and helped lead programming for 300+ students across 20+ hands-on engineering workshops over a 3-week period
- Mentored 50 students by assisting with questions, teamwork, and technical concepts

Education

McMaster University | Engineering September 2025 – Present

Awards

- Certificate of Achievement | University of Waterloo CEMC Summer Problem Solving Course
- Best Tech Team Award | Tech Under 20 Competition
- Cisco Certificate | Introduction to Cybersecurity
- EMBER Certificate of Recognition | McMaster University

Skills: Python, Java, C/C++, Arduino, ESP modules, CAD, 3D modelling