

# Ramil Jiwani

+1 647-323-4329 | ramiljiwani@gmail.com | linkedin.com/in/ramil-jiwani | Toronto, ON

## EDUCATION

**McMaster University**  
*B.Engineering (Co-op)*

September 2024 - April 2028 (Expected)  
*Hamilton, Ontario*

## SKILLS

**Software:** SolidWorks, Fusion 360, OnShape, Python, ReactJS, Tailwind CSS, MS Office, Adobe Suite

**Mechanical Skills:** GD&T, FEA, Lathe, Soldering, Arduino, 3D Printing, Laser Cutting, Prototyping

**Industrial Skills:** Project Management, Root Cause Analysis, User Design and Experience, and Technical Writing

## INDUSTRY EXPERIENCE

**McMaster Mars Rover Team** | Mechanical Sub-team Member | Hamilton, Ontario September 2024 - Present

- Tasked with designing a gripper attachment to improve the McMaster Mars Rover's mission capabilities.
- Used Solidworks, 3D printing and Arduino programming to prototype, focusing on strength and weight optimization.
- Reduced weight by 50% and increased gripper strength by 200%, enhancing the Rover's performance for mission tasks.

**Blues Hacks** | Founder and Project Lead | Toronto, Ontario May 2023 - June 2024

- Planned a hackathon for high school students across the GTA, managing funding, outreach, and logistical coordination.
- Secured \$2,500 in funding, reached 10,000+ people through social media, and collaborated with school administration.
- Delivered a successful event that fostered innovation and collaboration among high school students.

**VEX Robotics** | Team Executive | Toronto, Ontario September 2022 - June 2024

- Led the design and build of a competitive robot for VEX Robotics tournaments, while mentoring junior teams.
- Employed Fusion 360 to create CAD models for accurate execution and collaborated with executives to organize meetings.
- Built a high-performing robot that qualified for the VEX Robotics World Championship in Dallas, Texas.

## PERSONAL PROJECTS

**Automatic Water Gun** | *OnShape, 3D Printing, Prototyping*

- Designed a high-pressure automatic water gun for superior range (50ft) and performance in water fights.
- Used OnShape for precision design and constructed the device with PVC piping, DC water pumps, and LiPo batteries.

**Map My Mart** | *ReactJS, ExpoGo, Python, Flask, Sitem, OpenAI API*

- Developed an all encompassing grocery store assistant for those with visual disabilities by allowing users to have in-store navigation with live location updates and the ability to recognize any item.
- Reduces time to find item by 50% and has 100% accuracy in detecting items.
- Placed top 6 out of 212 teams at McMaster University

**Tourni** | *ReactJS, Tailwind CSS, Prisma DB, AWS*

- Developed a website to facilitate sports tournaments at university and improve athletics and student quality of life.
- Programmed in React JS and Tailwind CSS to incorporate features such as bracket generation, player cards, search features and gamification methods.
- Won first place prize for best use of AWS and UWaterloo's GeeseHacks.

## VOLUNTEER EXPERIENCE

**Aga Khan Youth and Sports Board** | Executive Director for Youth Clubs September 2024 - Present

- Organize and oversee youth club meetings to plan events for children aged 12-18.
- Provide 1-on-1 mentorship to youth club members.
- Deliver events that impact over 250 youth in the region of Northeast Ontario.

**Aga Khan Council For Canada - Camp Discovery and Mosaic** | Camp Director June 2024 - Aug 2024

- Led a team of staff to create a safe, inclusive, and engaging environment for children aged 6-8.
- Oversaw age-appropriate programs and activities that supported confidence, collaboration, and a memorable experience.
- Maintained high camper and parent satisfaction by promoting inclusivity and ensuring a secure and supportive atmosphere.

## INTERESTS

Reading | Cycling | Basketball | Hackathons | Chess | Community Volunteering