

# Jaavin Mohanakumar

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## EXPERIENCE

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### McMaster Rocketry Team – McMaster University

Nov. 2022 – Present

*Assistant Project Manager*

*Hamilton, ON*

- McMaster Rocketry Team is a student run team that designs, builds, and launches rockets. We had a successful launch to 3km in altitude at the inaugural Launch Canada Competition. ([macrocketry.ca](http://macrocketry.ca))
- As Assistant Project Manager I work with the controls team as a point of contact between the sub-team and the project manager.
  - Responsible for creating the preliminary design review presentation for a panel of Launch Canada judges for the upcoming Launch Canada 2023 competition.
  - Worked on the IREC Spaceport America Cup Project Technical Report overviewing our design for the IREC judging panel for the 2023 Spaceport America Cup.

### Team 1325: Inverse Paradox – FIRST Robotics Competition

Sept. 2019 – June 2022

*Software Development Team Co-lead*

*Mississauga, ON*

- Inverse Paradox is an internationally recognized community robotics team promoting STEM for students ([team1325.com](http://team1325.com)).
- As Co-lead for Software Development, I oversaw the implementation of software systems for a 120lb competitive robot.
  - Worked in autonomous programming and helped design an innovative path-following program (written in Java) to move the robot to set waypoints.
  - Worked in control systems and computer vision using WPILib and performed PID tuning to apply accurate control of the robot.
- Collaborated with team members, mentors, and team alumni to work on a robot that has won many competitions, and competed in the FIRST World Championship in Houston where we were awarded the “Excellence in Engineering” Award

### Engineering 1 Operating Committee – McMaster University

Oct. 2022 – Present

*Engineering 1 Operating Committee Member*

*Hamilton, ON*

- Consulted with the director of engineering, administrators, and instructors about enhancing the Engineering 1 program (~1000 enrollment).
- Developed strategies to provide 200+ students at risk with support centers for math, chemistry, and physics.
- Reviewed Canadian Engineering Accreditation Board(CEAB) Attribute Summary to assess the school's goals and address any issues.
- Determine what is working and where there would be opportunities to improve the Engineering 1 program.
- Act as the student voice for Engineering 1, by gathering feedback from students about what they enjoy about the program and where they would like to see changes.

## EDUCATION

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### McMaster University

Sept. 2022 – Apr. 2027

*Bachelor of Engineering, Engineering 1*

*Hamilton, ON*

- Admitted with the Faculty of Engineering Award of Excellence Scholarship (Final Admission Average 95%+)

## SKILLS & INTERESTS

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- **Skills**
  - **Langages:** Java, Python, Javascript, HTML/CSS
  - **Frameworks and Libraries:** React, Django
  - **Technologies:** Git Version Control, Azure, Autodesk Inventor
- **Interests:** sleeping; coding; taking my dog to the park; gaming; robotics; rockets!