

# Inuka Silva

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## EDUCATION

### McMaster University

*Candidate for Bachelor of Engineering (B.Eng.), Mechatronics Engineering*

Hamilton, ON

*Sept. 2025 - Present*

### University of Toronto

*Candidate for Honours Bachelors of Science, Computer Science*

Mississauga, ON

*Sept. 2024 - April 2025*

### Chippewa Secondary School (96%)

*High School Diploma*

North Bay, ON

*Sept. 2020 - June 2024*

- Schulich Nominee, IB, SHAD 2022 Alumnus

## TECHNICAL SKILLS

**Languages:** Python, Java, R, JavaScript, HTML/CSS

**Frameworks and libraries:** NumPy, pandas, OpenCV, matplotlib, Streamlit, MediaPipe, Next.js, Tailwind CSS

**Tools:** Git, Photoshop, Illustrator, PyCharm, Onshape, Autodesk Inventor, PrusaSlicer

**Soft Skills:** Leadership, Teamwork, Presenting

## EXPERIENCE

### Post Secondary Summer Student - Engineering and Computer Science

*Redpath Raiseboring Limited*

May 2025 – Aug. 2025

*North Bay, ON*

- Worked with Arduino compatible boards to record data from IMU, and transmit readings
- Designed Code for a Raspberry Pi to receive and store readings
- Used Autodesk Inventor to design and fabricate 3D printable enclosure parts

## LEADERSHIP

### Co-Captain, Software Engineer, Robot Driver

*FIRST Robotics Team 1305*

Jan. 2018 – April 2024

*North Bay, ON*

- Canadian robotics team with longest world championships qualification streak
- 1 of 8 Canadian FIRST Robotics Dean's List Finalist in 2023
- Started and mentored 2 FLL, FTC, and FRC teams across Canada
- Over 500 volunteer and community involvement hours

### CSS Student Ambassador

*Chippewa Secondary School*

Sept. 2023 – Jan. 2024

*North Bay, ON*

- Work with at risk students to complete assignments
- Organized and ran workshops for younger students

## PROJECTS

### Spotify Gesture Controller | *Python*

July 2024

- Developed a Python application which used hand gestures to control Spotify media functionalities
- Implemented MediaPipe Model Maker to create and train a gesture recognition model
- Used OpenCV library to capture feed from webcam

### FRC Robot | *Java*

Jan. 2022 - April 2024

- Integrated autonomous path following and pose estimation with apriltags
- Implemented PID feedback loops and triple modular redundancy for motor control
- Developed code for a swerve robot
- Wrote and implemented code for the 2022, 2023, and 2024 competition robots

### PID Visualizer | *Javascript, HTML and CSS*

July 2024

- Developed an interactive visualizer on PID control loops
- Used Plotly.js to visualize impacts of PID gains