

Inuka Silva

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EDUCATION

McMaster University	Hamilton, ON
<i>Candidate for Bachelor of Engineering (B.Eng.), Mechatronics Engineering</i>	<i>Sept. 2025 - Present</i>
University of Toronto	Mississauga, ON
<i>Candidate for Honours Bachelors of Science, Computer Science</i>	<i>Sept. 2024 - April 2025</i>
Chippewa Secondary School (96%)	North Bay, ON
<i>High School Diploma</i>	<i>Sept. 2020 - June 2024</i>
• 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	May 2025 – Aug. 2025
<i>REDPATH MINING</i>	<i>North Bay, ON</i>
• 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 parts	

LEADERSHIP

Co-Captain, Software Engineer, Robot Driver	Jan. 2018 – April 2024
<i>FIRST Robotics Team 1305</i>	<i>North Bay, ON</i>
• 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	Sept. 2023 – Jan. 2024
<i>Chippewa Secondary School</i>	<i>North Bay, ON</i>
• 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	