

# Tony Stark

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## Education

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### Bachelor of Engineering Co-op (BEng) | Mechatronics Engineering

2024 – 2029

McMaster University, Hamilton ON

- Enrolled in level 2 of McMaster University's Mechatronics Engineering Co-op Program, eligible for 4-month co-op placement starting May 2026
- Achieved 3.9/4.0 grade point average, earning \$1000 in total scholarships for 2025-2026 academic year

## Work Experience

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### Barista | Starbucks North York, ON

May – Aug 2025

- Managed high volumes of customer orders during peak hours, demonstrating time management, attention to detail, and communication skills
- Worked closely with coworkers to maintain flow and efficiency, highlighting teamwork ability in fast-paced settings
- Resolved customer complaints and difficult situations, showing professionalism and problem-solving skills in real-time situations

## Projects

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### Assistive Gripper Arm | Engineering Design Course Final Project

Feb – Apr 2025

- Fabricated an extendable arm for a client with a disability to assist them in daily activities
- Programmed a **Raspberry PI** using **Python** to extend and retract arm based on user movements
- Developed a joint mechanism using **Autodesk Inventor**, ensuring low-resistance movement of arm
- Prototyped different iterations of arm design using 3D printed models to find optimal proportions
- Managed team of 4 throughout project timeline by organizing individual members' workflows and deliverables, showing strong project management skills

## Extracurricular Activities

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### Software Sub-Team | McMaster University Exoskeleton Team

Oct 2025 – Present

- Implemented ArUco marker detection algorithms using **Python (OpenCV)** on **NVIDIA Jetson TX2**
- Designed and tested autonomous navigation systems, integrating sensor data and machine learning models for real-time decision-making
- Collaborated with a multidisciplinary team to enhance rover performance, highlighting communication, time management and teamwork skills
- Utilized **ROS** framework for communication between software components and hardware interfaces

## Skills

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**Programming Languages:** Python, OpenCV, ROS, C/C++, Java, Assembly

**Software:** MATLAB, SolidWorks, Autodesk Inventor, Prusa Slicer, Excel, MS Office, GSuite