

Johnathan Jay

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EDUCATION

Toronto Metropolitan University

Bachelor of Engineering, Mechatronics Engineering (Co-op)

Toronto, ON

Expected graduation: 2029

PROJECTS AND TEAMS

New Engineer

September 2024 – Present

Toronto Metropolitan Formula Racing

Toronto, ON

- Designing and implementing a master switch for the tractive system in accordance with FSAE guidelines
- Compiling parts into DXFs using **SolidWorks** to assist the engineering team with part sendout
- Regularly attending meetings and training to learn as much as possible about FSAE

Team Captain

September 2022 – March 2024

VEX Robotics Team 4659

Mississauga, ON

- Led a rookie team to provincial championships 2 seasons in a row
- Designed the robot using **OnShape**, leading to improved manufacturing time
- Created detailed drawings and assemblies, reducing errors in manufacturing
- Documented, in detail, the entire engineering process for the robot

Manufacturing/CNC | *MasterCAM, OnShape, Manual Machining*

2022-2024

- Created a pen, a box, and a model of the CN tower using a lathe and mill to learn manufacturing techniques
- Created CNC toolpaths in **MasterCAM** for engraving operations
- Learned how to design products in **CAD** with manufacturing processes in mind

WORK EXPERIENCE

Sales Associate

November 2021 – September 2024

Canadian Tire

Mississauga, ON

- Increased visibility of sale items, leading to increases in sales and customer satisfaction
- Frequently recognized for hard work and good customer service

Business Owner

April 2018 – Present

Johnathan's Lawn Mowing

Mississauga, ON

- Self started my own lawn mowing business through word of mouth and knocking on doors, expanding my business to 6 clients in a year
- Maintained client's yards, cutting grass, shoveling snow, leading to increased property values

SKILLS

Software: Solidworks, OnShape, MasterCAM, Bild, MATLAB,

Programming: C, HTML/CSS, Arduino (C++)

Soft Skills: Project Management, Leadership, Engineering Process, Communication

Interests: Robotics, CNC Machining, Manufacturing, Arduino, Custom Computers