

# PIETRO MAXIMOFF

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## **HIGHLIGHTS OF QUALIFICATIONS**

- Current Master of Manufacturing Engineering student eligible for 4-12 month Co-op as of Sept. 2025
- Experienced engineer with excellent leadership, communication and teamwork skills gained through 4 years of experience in the manufacturing industry
- Strong background in process optimization with Lean Six Sigma and Project Management training

## EDUCATION

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**Master of Engineering, Manufacturing Engineering (Co-op)**

Sept. 2024 – expected Dec. 2026

*McMaster University, Hamilton ON*

- Coursework: Manufacturing Systems, Discrete Manufacturing, Lean Six Sigma, Leadership for Innovation

## **Bachelor of Technology (Co-op)**

Sept. 2019 – April 2023

*McMaster University, Hamilton ON*

- Coursework: Manufacturing Technology, Plant Layout and Material Handling, Design for Manufacturing

## RELEVANT PROJECTS

## Classical Design of Experiments (DOE) to Optimize Tool Life

Jan. – April 2025

- Conducted trial runs in simulated production line, analyzed data, and made recommendations to improve life of Cubic Boron Nitride tools using DOE, with an estimated savings of \$25k CAD

## RELEVANT EXPERIENCE

## Lead Engineer, Systems

*Ontario Power Generation, Toronto ON*

- Drafted **FMEA, Control Plans and Work Instructions** for serial production as part of APQP to proactively identify, mitigate and address risks which resulted in reduced Cost of Quality and faster turnaround time
- Utilized statistical techniques such as **SPC, DOE, Process capability (Cp, Cpk), Six Sigma, FMEA and RCA** to improve product quality, reduce costs and increase efficiency of manufacturing processes
- Used **Root Cause Analysis** tools such as 5 Whys and DMAIC to identify underlying causes of defects in production, eliminating sources of defects and improving quality and customer satisfaction
- Designed processes and selected tooling for new products to meet process capability, production capacity and cost specifications; achieved a cost savings of \$150k CAD
- Assisted the Quality Assurance team with development and adherence to Quality Management Systems and Environmental Management Systems standard for audits and documentation

## Production Engineering Intern

May - Aug 2022

Production Engineering Intern  
*ArcelorMittal Dofasco, Hamilton ON*

- Utilized **Lean** techniques to improve productivity, resulting in \$60k CAD savings from previous quarter
- Implemented **5S** to a team of 10 to adhere to quality management system on the shop floor, increasing productivity and reducing accidental injuries
- Led a project to reduce lead time for a new part by 12% using **Value Stream Mapping**

## SKILLS

**Software:** Minitab, SolidWorks, Creo, CNC, Microsoft Office including Project, Word, PowerPoint, Excel, Fusion 360, Ansys, SAP, C++, AutoCAD

**Technical:** FMEA, 5S, Kaizen, Lean Six Sigma, 8D, SPC, GD+T, PPAP, AQP

## **EXTRACURRICULAR ACTIVITIES**

**Human Factors & Ergonomics Team Lead**  
**Human Factors & Ergonomics Team Member**  
*Formula Racing Team, McMaster University*

Sept. 2022– April 2023  
Sept. 2021 – April 2022

- Led a team of 8 members in the design and integration of all driver-interfacing components for McMaster's Formula Racing Car, including steering grips, seat, harness, and cockpit layout complying with FSAE safety standards; developed ergonomic solutions accommodating drivers and cockpit accessibility and comfort
- Utilized SolidWorks and ANSYS for spatial modeling and stress analysis of cockpit components under dynamic loads
- Collaborated with electrical, suspension, steering, and aerodynamics teams to ensure seamless integration of dashboard interfaces and driver controls, optimize driver visibility, control reach, and ingress/egress; reduced the driver set up time by 3 minutes

## **OTHER EXPERIENCE**

**Engineering Mathematics Course Instructor**  
*McMaster University, Hamilton ON*

Sept. 2022 – April 2023

- Designed curriculum, grading scheme and course schedule for differential equations course
- Taught content at biweekly lectures and hosted regular office hours to ensure all content was clearly communicated and understood by the students

## **Sales Associate**

*Aritzia, Hamilton ON*

Sept. 2021 – April 2022

- Assessed client needs and recommended appropriate items, exceeding daily sales targets by an average of 30% and contributing to the store receiving an award for highest sales in Q4 (2021)
- Managed 20 hours of work alongside fulltime academics and extracurricular activities

**McMaster University**



**Growth & Experience**