

Kenneth Taylor

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Highlight of Qualifications

- Enrolled in level 2 of McMaster University's Materials Science & Engineering Co-op Program, eligible for 4-month co-op placement starting May 2026
- Strong experience with materials selection and testing through research experience and project work
- Demonstrated organizational skills and attention to detail in laboratory settings and in work experience

Education

McMaster University | Hamilton, ON

2024 – 2029

Materials Engineering Co-op (BEng)

- Achieved Deans Honour List for achieving 3.9/4.0 GPA in first year of studies

Work Experience

McGill University Metallurgy Lab | Montreal, QB

Jan – Feb 2025

Microscopy Research Assistant

- Assisted in the preparation and characterization of metal samples using techniques such as metallography and scanning electron microscopy (SEM)
- Conducted tensile and hardness tests of metals to evaluate material and mechanical properties
- Collected and analyzed data using software tools like MATLAB and Origin, processing over 50 datasets
- Managed data organization in Excel, ensuring accurate and efficient data retrieval for over 100 samples
- Collaborated with senior researchers and graduate students on ongoing projects, gaining hands-on experience in experimental procedures and data interpretation

Team Member (Part-Time) | Toronto ON

May 2023 – Aug 2024

Tim Hortons

- Managed high volumes of customer order with high degree of accuracy, demonstrating attention to detail and communication skills
- Worked closely with coworkers to maintain flow and efficiency, highlighting teamwork ability in fast-paced settings

Projects

Wastewater Filtration System

Jan – Feb 2025

First Year Engineering Design Course

- Collaborated with 4 other students to design a filter for treatment of microplastic contaminated effluent
- Performed materials selection using GRANTA EduPack, choosing the best materials that met objectives and constraints of cost efficiency and environmental footprint
- Conducted life cycle analysis and eco audit to reduce environmental impact of the final filter
- Performed administrative duties, ensuring all team deadlines and milestones were met successfully

Skills

Software: Python, MATLAB, Excel, MS Office, GSuite, GRANTA EduPack, Autodesk Inventor, SolidWorks, ANSYS

Lab Skills: Metallography (cutting, mounting, & polishing samples), microscopy, tensile & hardness test, 3D printing, machining (waterjet cutting, lathing, milling, & welding)