

# Ryan Wang

905 – 525 – 9140 | wangryan12@mcmaster.ca | linkedin.com/in/ryanwang | wix.com/ryanwang

---

## Highlights of Qualifications

- Enrolled in level 3 of the 4-year Materials Engineering Co-op program at McMaster University
- Developed skills in preparing metallography samples with cutting, mounting, polishing, and etching through lab course work and as a Materials & Processing Co-op Student
- Familiar with phase diagrams and reformulating problems for thermodynamic analysis
- Extensive analytical and problem-solving skills developed through project and laboratory work

## Education

Bachelor of Engineering, Materials Engineering  
McMaster University, ON

September 2020 – April 2024

- Currently maintaining a CGPA of 92% across all semesters

## Experience

Materials & Processing Co-op

May – December 2021

UTC Aerospace Systems, Oakville ON

- Assisted with the testing of monthly process control specimens, including the preparation of metallurgical specimens and microhardness testing
- Analyzed fractured components and specimens using microscopes, SEMs and stereoscopes to determine the cause of the fractures
- Conducted a chemical analysis and controlled the plating bath and auxiliary solutions at the required testing intervals
- Assisted with multiple research and development projects, including the photography of components, sectioning of specimens, testing of specimens, preparation of metallurgical specimens, microhardness testing and microstructural analysis

## Projects

Failure Analysis

September – October 2021

- Collaborated in a team of 5 to determine the source of error on a broken specimen utilizing the scanning electron microscope, microhardness testing, and visualizing its microstructure with the standard procedure of a metallography lab (cutting, polishing, etching, etc.)

## Skills

- Handling & refining high temperature metals
- SEM operation & analysis
- Microhardness testing & microstructure analysis
- Fractography and Failure analysis
- WHIMIS & Lab Safety

## Extracurricular Activities

McMaster Baja Team | Failure Analysis  
Fall 2020 - Present

- Developed skills in simple preparation, metallography, fractography, optical microscopy and material testing