

Ryan Wang

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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

Sept 2020 – April 2024

- Currently maintaining a CGPA of 92% across all semesters

Experience

Materials & Processing Co-op

May – Dec 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

Sept – Oct 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