

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, Hamilton ON

Expected Completion, April 2019

- Currently maintaining a cumulative grade-point average of 92% across all semesters

EXPERIENCE

Materials & Processing Co-op

May – December 2017

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 2016

- 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
- Material testing & data analysis
- Microhardness testing & microstructure analysis
- Fractography & failure analysis
- WHMIS & Lab safety trained

EXTRACURRICULAR ACTIVITIES

- McMaster Baja Team | Failure Analysis** **Fall 2017**
 - Developed skills in sample preparation, metallography, fractography, optical microscopy, and material testing
- McMaster Men's Volleyball** **Sept 2016 – Present**
 - Awarded Athlete of the Week 02/19/2017