

Justin McAllister
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Objective: To obtain a full-time engineering position.

Education

University of Utah, Salt Lake City, Utah

Bachelor of Science in Metallurgical Engineering, Candidate. May 2011, GPA 3.8

Honors at Entrance, 2005

Dean's list, Fall 2005, Spring 2006, Spring 2009, Fall 2009, Spring 2010

Work Experience

American Metallurgical Services, Salt Lake City, Utah

Lab Assistant, May 2010-August 2010

Assisted with the testing of metals and metal components including:

- Tensile testing
- Metallographic sample preparation: cutting, mounting, polishing, etching
- Macro and Micro examination
- Chemical analysis
- Failure analysis

University of Utah, Salt Lake City, Utah

Research Assistant, December 2008-present

Copper Electrorefining

- Designed lab electrorefining tank to use electrodes one meter tall
- Processed eight 12 day electrorefining tests including strip and scrap phases

Bornite saturated flow column leaching

- Forty-seven column tests run ranging from three to forty-five days using either sulfuric acid or plant raffinate as leaching solution
- Raman spectroscopy of precipitates
- Precipitate preparation for x-ray diffraction and ICP analysis
- Thermodynamic modeling using Visual Minteq, HSC Chemistry, and OLIAalyzer
- Analysis of acid consumption and ICP data
- Monthly technical reports submitted to project sponsor

Corrosion analysis of steel pipes

- Determination of corrosion rate
- Mounting, polishing, and optical microscopy

Cyprus Credit Union, West Jordan, Utah

Teller, November 2008-May 2010

Provide education on financial options and perform basic transactions

Rock Creek Pizza Co., Sandy, UT

Shift Supervisor, September 2003-September 2006

Responsible for managing twelve employees

Cash balance, nightly deposit and simple accounting

Leadership and Community Service

Tau Beta Pi, Chapter officer, April 2009-April 2010

Assisted in the planning of Meet an Inventor Day K-12 engineering outreach

Responsible for writing the chapter newsletter

Utah Museum of Natural History/Glendale Middle School, Youth Teaching Youth Fellow,

September 2009-May 2010

Help develop the science teaching skills of middle and high school students

Developed an interactive lesson on the erosion and geology of Arches National Park

Additional Qualifications

Proficient in Microsoft Word, Excel and Powerpoint; and Matlab

Eagle Scout

References

Dr. Michael Free, Professor, University of Utah

135 S 1460 E RM 412, Salt Lake City, UT 84112

801-585-9798, michael.free@utah.edu

Dr. Michael Moats, Professor, University of Utah

135 S 1460 E RM 412, Salt Lake City, UT 84112

801-581-6386, michael.moats@utah.edu

Tracy Gillis, Metallurgist, American Metallurgical Services

50 W Louise Ave, Salt Lake City, UT 84115

801-484-1777

Kent Nelson

8440 Williams Rd, Richmond, BC V7A 1G6

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