

Joshua Holbrook

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Skills and Qualifications:

- Proficient with GNU/Linux, MATLAB and python/scipy; and experience with javascript

Education:

Master of Science in Mechanical Engineering Sept. 2009 – May. 2011
Thesis: The Determination of Anisotropic Thermal Conductivity with Thermal Needle Probe Measurement
3.62 GPA

Bachelor of Science in Mechanical Engineering, Cum Laude Aug. 2005 – May 2010
Minor in Mathematics 3.67 GPA

High School Diploma May 2005
3.73 GPA

Employment History:

Teaching assistant September 2010 – May 2011
UAF Mechanical Engineering Department, Fairbanks AK
Job duties include:

- Grading homework and designing quizzes for ES 346, Basic Thermodynamics
- Grading homework for ME/ENVE 458/658, Energy and the Environment
- Grading homework for ME 403, Machine Design
- Redesigning and conducting laboratory experiments for ME 415, Thermal Systems Lab

Research Assistant January 2010 – August 2010
UAF Institute of Northern Engineering, Fairbanks AK
Job duties include:

- Designing and running finite element models using COMSOL and MATLAB
- Analyzing geographical information using perl, python, MATLAB and C++

Office Assistant January 2008 – December 2009
UAF Mechanical Engineering Department, Fairbanks AK
Job duties include:

- Tracking purchase information on UAF's Oracle database and compiling it into a human-readable form
- Facilitating communication between students, faculty and system administration

Professor's Assistant September 2008 – December 2008
UAF Mechanical Engineering Department, Fairbanks AK
Job duties include:

- Grading and correcting homework assignments for ES 331, "Mechanics of Materials"

Painter May 2008 – August 2008
UAF Conference Services, Fairbanks AK
Job duties include:

- Patching, painting and wet-sanding walls, ceilings, doors and trim

Laboratory Assistant February 2007 – May 2007
UAF Water and Environmental Research Center, Fairbanks AK
Job duties include:

- Taking inventory of chemical stock
- Tabulating, manipulating and organizing test data in Excel