

Joshua Holbrook

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Objective:

Skills and Qualifications:

- Proficient with Microsoft Office suite and GNU/Linux; and experience with COMSOL Multiphysics
- Proficient with MATLAB and python/scipy, experience with bash and javascript and Exposure to C(++), Perl and PHP;
- Certified LabVIEW Associate Developer

Education:

Master of Science in Mechanical Engineering
Minor in Mathematics
Completed 15 Credit Hours
3.68 current GPA

Sept. 2009 – Dec. 2010 (expected)

Bachelor of Science in Mechanical Engineering, Cum Laude
3.67 GPA

Aug. 2005 – May 2010

Projects:

Lulzbot

July 2010 – Present

- IRC Bot
- First significant project in javascript and node.js
- Watches github, checks weather
- Lulzbot-X in `irc://irc.freenode.net/#stackvm`

Methlabs

June 2010 – August 2010

- A collection of tools for Matlab
- m-files inspired by functional programming paradigms such as those in Haskell
- Includes a python script that allows shebanged scripts to be interpreted by Matlab

Super Four-Bar Explorer

December 2008

- A program written in python that uses a Gauss-Newton unconstrained optimization algorithm to fit the path traced by a four bar linkage to a given set of points
- Accompanied by a spreadsheet that illustrates four-bar linkage traced paths

Employment History:

Research Assistant

January 2010 – Present

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' 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