

Joshua Holbrook

1727 Bridgewater Dr. Fairbanks AK 99709 – (907) 841-9238 – josh.holbrook@gmail.com – <http://jesusabdullah.github.com>

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

Sept. 2009 – Dec. 2010 (expected)

Minor in Mathematics

Completed 15 Credit Hours

3.68 current GPA

Bachelor of Science in Mechanical Engineering, Cum Laude

Aug. 2005 – May 2010

3.67 GPA

High School Diploma

May 2005

3.73 GPA

Projects:

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

Service:

American Society of Mechanical Engineers, Student Chapter

September 2009 – May 2010

- Administered web site and facebook page
- Volunteered at E-Week activities

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

Construction Laborer *May 2007 – June 2007 full-time January 2008 – Present on irregular basis*

Panco Construction,
Talkeetna
AK

Job duties include:

- Sanding, polishing and assisting in the fabrication of solid surface
- Stocking, staging and assisting in the install of countertops other materials

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

Porter

May 2006 – August 2006

Aramark-Harrison Lodging, Denali National Park AK

Job duties include:

- Stocking; cleaning and maintaining public areas; and preparing rooms for guest arrival