

Joshua Alan Hogg

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Work Authorization: US Citizen

Objective

I am interested in a graduate level internship in the areas of mechanical engineering, design, or test engineering. I believe my degree in mechanical engineering and background in material science complement each other and will serve well in either discipline.

Education

Expected M.S. Material Science – Oregon State University GPA: 3.33/4.00
Expected Graduation: Spring 2010

B.S. Mechanical Engineering – Oregon State University Engineering GPA: 3.00/4.00
Graduated: Spring 2008

Related Classes: Material Selection, CAD/CAM, Advanced Stress Analysis I, Advanced Stress Analysis II, Advanced Fracture Mechanics

Experience

- Dec 2007 – Present **Oregon State University**
Research Assistant
- Programmed and configured an induction furnace for high-temperature fatigue testing capabilities.
 - Gained valuable experience in System control and finite element analysis
- Apr 2007 – Nov 2007 **Johnson Crushers International, Inc**
Design Engineer, Intern
- Worked in Plant Engineering as a design engineer where I was an active team member in the redesign and cost reduction of the new FT 6203 Screening Plant.
 - Designed and analyzed a new Dolly system for transporting the plant. This provided ample opportunity to reduce cost and manufacturing time. This also involved modifying the current axle system to accommodate new design requirements.
- Apr 2006 – Sept 2006 **Nacco Materials Handling Group, CBDC**
Design/Test Engineer, Intern
- Worked in Product Evaluation, where I was solely responsible for the design, manufacture, and setup of an axle test fixture. This test stand is capable of 24/7 fully reversed operation, and saves NMHG thousands of dollars per 100,000 cycle test as an alternative to dyno testing.
 - Gained valuable experience in component design and test, including experience with EDAQ data acquisition system and software; test setup using strain gauges, thermocouples, load cells, encoders, etc.; as well as a general working knowledge with hydraulics, vender relation, and fabrication.
 - Honed my problem solving skills as a designer as well as project management, including sustaining a budget, and balancing multiple design objectives.

Skills

- ANSYS Finite Element Analysis
- NASTRAN Finite Element Analysis
- Fe-Safe Fatigue Analysis
- Familiar with MTS test equipment
- Verity Module in Fe-Safe
- LabView Programming
- EDAQ Data Acquisition System
- SolidWorks
- Autodesk Inventor
- System Control
- AutoCAD

Areas of Interest

I am interested in design, test, and research and development. I am very eager to broaden my scope of the mechanical engineering field. In my studies I have enjoyed material science, strength of materials, and stress analysis. I also enjoy machining and fabricating. I am currently working on a Masters Degree of Science in Material Science and Mechanics primarily focusing on fracture and fatigue.

Professional Honors / Leadership

- Successfully completed the Engineering Fundamentals Examination in the state of Oregon.
- Completed the highly competitive MECOP internship program, consisting of two 6 month internships in industry.
- Member of Pi Tau Sigma's Omega chapter, national honor society for mechanical engineering.
- Inducted into Phi Theta Kappa, international honor society for two year colleges.
- 2nd Place Chemeketa Community College truss competition.
- 4th Place of 26 in junior design competition.

References

- Jamie Kruzic, Associate Professor – Oregon State University
(541) 737-7027 – jamie.kruzic@oregonstate.edu
- Tom Furrer, Senior Project Engineer – Johnson Crushers International, Inc.
(541) 736-1400 – tfurrer@jcieug.com
- Brian Scott, Project Engineer – Boise Paper
(509) 546-3420 – BrianScott@boisepaper.com
- Mark Miller, PE, Instructor – Chemeketa Community College
(503) 399-5225 – milm@chemeketa.edu