

Akram Khatib

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OBJECTIVE:

To gain a *full time* position offering experience, knowledge, and teamwork in Mechanical Engineering where I can apply the theory that I have learned.

EDUCATION:

Purdue School of Engineering & Technology, IUPUI - Indianapolis, IN

Masters in Mechanical Engineering

Expected Thesis Completion Date: May 2014

Minor in Mathematics GPA: 3.92/4.0

Related Courses:

Intermediate fluid mechanics, Turbulence computation, finite elements analysis, CAD/CAM, design one& two, System Measurements, Engineering Ethics, Thermal Fluid System design, ANSYS FLUENT.

SKILLS:

- Software Packages: Excel, Word, PowerPoint
- Knowledge in Matlab, C-programming, Pro-E, ANSYS, Labview
- Manufacturing hands on experience
- Languages, English – Fluent, Arabic – Fluent, French – Proficient

HONORS, ACTIVITIES, and LEADERSHIP EXPERIENCE:

- President; Engineering Technology World Wide Club (ETWC) *March 2010 – May 2011*
- Co-Chair ME undergraduate Student Advisory board (ME-USAB) *December 2010 – Present*
- MURI Research Program *August 2010 – May 2011*
- Cummins Inc. Award for the Outstanding Mechanical Engineering Junior *Spring-2012*

PROFESSIONAL EXPERIENCE:

Lead Energy Auditor at the Industrial Assessment Center, Indianapolis, IN

December 2012 – Present

- Performed more than ten audits to this date
- Understand engineering theories and translate it to ways to save energy
- Researched different government laws
- Researched and helped come up with ideas to reduce energy consumption

Research Assistant at The Center for Research and Learning (CRL)

Aug 2010 – May 2011

- Research assistant in MURI team. Research focused on solid-state lithium ion batteries
- Responsible for carrying out most of the lab analysis and setting up experiments by making my own materials, including heat treatments. Also prepared lithium based coin cell in glove box.

Teaching Assistant at Mechanical Engineering Department

Sep 2010 – Present

- Teaching Assistant for System Measurement and Mechanics of Materials
- Responsible for the grading of all the homework and class work assignments
- Provide feedback to the students; assist the students who are having troubles

IUPUI OTEAM (Orientation Team) – Student Leader, Mentor, Coordinator

May 2010 – Aug 2012

- Was involved in major decision making in the administrative office

Apartment Building Manager

Feb 2010-Present

- Managed tenant paperwork and payments
- Overlooked the maintenance work and made sure that quality work is being delivered on time

PROJECTS:

- **Wireless Monitoring System of manufacturing equipment “Thesis Project”** *May 2013-Present*
 - Worked on setting up a wireless system that is able to pick up different sensor signals
 - Worked on producing a software that is able to analyze data
- **Dental testing device “Capstone Project”** *Spring 2013*
 - Designed and manufactured a dental device that delivers vibrational forces to rat’s molars
 - Tested and verified the device to ensure it meets customer specifications.
- **Diaphragm pump controller design verification** *Summer 2013*
 - Validate energy savings due to installing a controller to reduces the amount of compressed air used by the pump
- **Process Heat Assessment and Survey Tool (PHAST) project** *Fall 2013*
 - Worked on comparing efficiencies for two different types of liquid aluminum holding furnaces “Lid resistive heating” “Immersion heating”
- **Heat exchanger design for a commercial boat** *Spring 2012*
- **Peristalsis movement simulation** *April 2012*