

# Hazim Khusaibi, EIT, S.M.ASCE

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- Objective** A challenging internship opportunity with during summer 2011, with emphasis in structural engineering and building information modeling.
- Education**
- **University at Buffalo - The State University of New York** *Aug 2010 - May 2012*  
*M.S. Civil Engineering (Structural & Earthquake Eng)*
  - **The Pennsylvania State University - State College, PA** *Aug 2005 - May 2010*  
*B.S. Civil Engineering (Structural Option)*  
*Minor: Engineering Mechanics*
- Certification**
- **E.I.T. Certification**, (Dec. 2010)
  - **OSHA (40hr) HAZWOPER**, (Feb. 2009)
- Internship Experience**
- Galfar Contracting & Engineering SAOG**, Muscat, Sultanate of Oman  
*Onsite Engineering Intern*
- Gained experience within many aspects of the construction industry:
- Oversaw and participated in the periodic site inspection with the Resident Engineer and Safety inspector.
  - Conducted Health and Sanitary inspections on laborer camps as part of the Health & Occupational Hazards awareness and assessment initiative.
  - Rotated and teamed with departments managing Construction, Quantity Surveying, Quality Control and Structural analysis.
- Holford & Associates**, Dubai, UAE  
*Engineering Design Intern*
- Served as a communication bridge between Arabic and English speaking parties and applied engineering knowledge to explain technical specifics of the design.
  - Participated and interacted in the periodic construction site meetings between the owner, consultant and contractor.
- Engineering Technical Projects**
- i. Building Retrofit (Grad): Structural Control (Spring 2011 - Pending)**
- Conducted a complete analysis of a building, before and after retrofitting.
  - Designed the structure against the ground motion loadings of the historic LA El-Centro earthquake.
  - Performed the retrofit using the following types of damping systems; Hystretic, Viscous, Tuned-Mass dampers and finally Base Isolation system.
  - Compiled a written report, and will present the findings of the project to a class of my peers and a panel consisting of professors and a consultant.
- ii. Dynamic Analysis of a column type structural element subject to detonation:**
- Computed peak reflected pressure, reflected impulses and positive phase durations for a given surface detonation utilizing Unified Facilities Criteria codes by the US DoD.
  - Performed hand single degree of freedom analysis using pressure and impulse values and evaluated deformation and strain patterns as well as dynamic reactions.
  - Utilized hydrocode predictions of pressure and impulse in the LS-DYNA code software to compute peak deformations and dynamic reactions across the height of a column structure.
- iii. Bridge Seismic Analysis (Grad): (Spring 2011 - Pending)**
- Conducted a complete seismic analysis of a bridge under the highway bridge specifications of both MCEER/ATC-49 and AASHTO.
  - Performed the main five analyses prescribed for seismic analysis, including Uniform Load Method and Spectral Response Analysis
  - Compiled a written report, and will present the findings of the project to a class of my peers and a panel consisting of professors and industry consultants.
- iv. Truss Bridge Analysis - Truck Weights: Finite Element Analysis (Fall 2009)**
- Performed a Finite Element Analysis of a Truss configuration bridge to evaluate structural integrity over several life cycles.
  - Conducted the study under similar loadings as the I-35W Mississippi River Bridge that collapsed in '08.
  - Presented the findings of the project to a class of my peers and a panel of judges for evaluation.

Continued

**i. Project Proposal: Bethlehem Steel Properties: *Structural Engineering Capstone (Spring 2009)***

- Assembled a project proposal for Bethlehem Steel Properties' building on concepts learned from concrete, foundation and steel design.
- Designed project in accordance to the ASCE manual and IBC building code criteria, and plan/girder/beam/column layout was structurally designed and drawn in AutoCAD by the capstone group.

**Additional Experience**

**SUNY - University at Buffalo: *CIT Public Sites Consultant (Spring 2011 - Ongoing)***

- Provide assistance and IT support to patrons who use computer lab facilities across campus
- Maintain computer labs and printing work stations, allowing faculty, staff, students and the public to meet their academic needs in a suitable environment.
- Operate print workstations with robust servers, to manage campus print jobs, and sort jobs for pick-up.

**Relevant Courses**

Finite Elements in Engineering  
Geotechnical & Materials Capstone  
Foundation Engineering  
Advanced Mechanics of Solids (Grad)  
Advanced Mathematics for Engineers (Grad)  
Earthquake Engineering I (Grad)  
Blast Engineering (Grad)

Design of Steel & Concrete Structures  
Advanced Strength of Materials and Design  
Professionalism, Economics and Project Delivery  
Advanced Mathematics for Engineers (Grad)  
Advanced Structural Analysis (Grad)  
Infrastructure Management and Public Policy (Grad)  
Structural Dynamics & Earthquake Eng. II (Grad)

**Skills, Honors & Activities**

**Honors/Activities:**

- International Award for Young People - Bronze Standard Award
- Full Government Scholarship for Excellence in Academics
- Dean's List (Spring 2010)
- Member of ASCE
- Member of the Penn State Alumni Assoc.
- Amateur RC Helicopter Hobbyist
- Student Member of EERI & IStructE

**Software Experience:**

Autodesk (AutoCAD WS Collaboration, AutoCAD 2011, Autodesk 3Dx Max, Robot & Revit) Matlab, ANSYS, LS-DYNA, SAP2000 & STAADpro  
Course Experience: RUAUMOKO Suites

**Language Spoken:**

Fluent: English & Arabic.  
Learning: French & Swahili.