

Mais Maher Aldwaik

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Education

PhD:

2014 – 2019 *The Ohio State University Ohio, USA*

PhD in civil engineering/ structural engineering. Research is about cost optimization of high rise structures subjected to seismic loading, using neural networks.

Master's degree:

2008 – 2012 *University of Jordan Amman, Jordan*

Masters of Civil Engineering, Thesis title: “Seismic performance evaluation of retrofit strategies for reinforced concrete frames: Steel bracing with shear links and column jacketing”

Bachelor's degree:

2002 – 2006 *University of Jordan Amman, Jordan*

Bachelor of Civil Engineering.

Publications

Amezquita-Sanchez, Juan Pablo; Valtierra-Rodriguez, Martin; Aldwaik, Mais and Adeli, Hojjat. Neurocomputing in Civil Infrastructure. *Scientia Iranica A*, 23:6, pp. 2417-2428, 2016.

Aldwaik, Mais and Adeli, Hojjat. Cost Optimization of Reinforced Concrete Flat Slabs of Arbitrary Configuration in Irregular Highrise Building Structures. *Structural and Multidisciplinary Optimization*, 54:1, pp. 151-164, 2016.

Aldwaik, Mais and Adeli, Hojjat. Advances in Optimization of Highrise Building structures. *Structural and Multidisciplinary Optimization*, 50:6, pp. 899-919, 2014.

Aldwaik, Mais and Armouti, Nazzal. Analytical Case Study of Seismic Performance of Retrofit Strategies for Reinforced Concrete Frames: Steel Bracing with Shear Links Versus Column Jacketing. *Jordan Journal of Civil Engineers*, 7:1, pp. 26-43, 2013.

Work Experience

February 2020 – Present Philadelphia University Amman, Jordan

Assistant Professor. Basic responsibilities include teaching a requisite number of classes, providing guidance and supervision to students, providing academic support to Professors and other faculty members, conducting research and publishing papers in academic journals, writing proposals to secure funding for research.

Nov. 2006 – July 2011 e.construct <http://www.econstruct.ae> Amman, Jordan

Structural design engineer. Basic responsibility includes leading a team of 3 to 4 engineers in value engineering projects and full structural design projects. Most projects are:

- Precast projects (HCS's, Sandwich panels, band beams, Precast connections and construction sequence).
- Reinforced concrete projects (all types of structural RC systems and elements: Framed buildings, shear wall buildings, flat slabs, raft foundations)
- Full structural detailing and shop drawings.
- 3D modeling and lateral load calculations (Wind, Seismic)

In some projects, I worked in:

- Structural masonry warehouses with light steel roof, and masonry cladding (light weight and ordinary weight), steel connections, PT slabs design.

Since the company has many international offices, we have worked in projects in UAE, KSA, Qatar, Kuwait, Jordan, Egypt, India and USA, hence worked based on both ACI and BS codes.

Software and training

Professional user of:

- AutoCAD.
- Etabs, SAFE, SAP.
- MIDAS (all of their design software).
- TEKLA detailing software <http://www.tekla.com/>
- Concise (PT members design).
- ROBOT (3D modeling).
- Intermediate user of ADAPT.

Training:

- *Oct '08* Leadership 6 sessions training, which was performed by mannaz <http://www.mannaz.com/> The training sessions were placed in Sharjah and Alexandria.
- TEKLA: 2 sessions (weekly session) training which was performed by a professional TEKLA engineers.
- Attendance in the following courses which was held by engineering training centre (ETC):
 - *June '05* PROKON structural analysis.
 - *Feb. '06* Primavera Project Planner.

Professional organizations membership

- Member of American Concrete Institute (ACI)
- Member of American Society of Civil Engineers (ASCE)
- Member of the Jordan Engineers Association