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Structural Engineer

Summary

I am a young professional engineer with a passion for designing building structures. I am highly motivated and respected structural engineer with 4 years of experience working in the construction industry. I enjoy challenges that help me understand and solve complex structures, as well as working with a team and working individual with minimal supervision. I specialize in mid to high-rise buildings in the development of new structures. I am an excellent communicator both verbally and written, with great presentation and public speaking skills. I have experience in commercial, residential and transportation sectors. As well as great coding acumen with Excel and Matlab, for solving numerical problems. I have reviewed and supervised work for submissions for both engineers and draughtsmen.

Profession Structural Engineer

Nationality Canadian

Language English , Arabic , French

Work experience

Jan 2016 - Jan 2018	Engineer- Structures <i>WSP, Middle East</i>
Apr 2014 - Dec 2015	Graduate Engineer - Structures <i>WSP, Middle East</i>
Jul 2012 - Aug 2012	Intern Engineer - Structures <i>WSP, Middle East</i>

Education

2008 - 2013	B.Sc in Civil Engineering <i>American University of Sharjah</i> Major: Structural Engineering
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Relevant Research Projects

"Red Sea -Dead Sea Canal and Raising the Dead Sea Level"

AUS / Cambridge University Collaborative Research project supervised by Professor Geoffrey Parker, on sustainability. This project studied the attempts of raising the Dead Sea level in addition to generating energy by means of fluid flow between the Dead Sea and the Mediterranean Sea.

"Impact of Changes in ACI 318 Building Code: Changes in Durability and Structural Design Requirements"

AUS Research project supervised by Professor Sherif Yehia, this project studied the changes of the ACI 318 through a period of 50 years and their changes, and the significance on the impact on the structural integrity of structures.

Key Project Experience

Rashid Pediatric Center School Therapy Center Expansion (September 2017- Jan 2018)

- This is a corporate social responsibility project,
- School expansion of multi-functional therapy/ training facility for therapy teachers and children with disabilities.
- Responsible for briefing client and provide necessary report and recommendations
- Managing the multidisciplinary team and briefing them on clients needs and recommendations
- Produce design reports and design calculations to support structural drawings
- Responsible for the Management and Planning of the expansion
- Responsible for the structural design and review of the expansion

Dubai Expo 2020 Metro Extension -Underground Station (August 2017Jan 2018)

- Underground station 20m deep station below the water table, with cast in-situ diaphragm walls of varying thickness, supported on a raft.
- Responsible for ensuring a fully coordinated design with other disciplines.
- Responsible for the production and checking of drawings from draftsmen.
- Responsible for reviewing and assisting team leader engineer in the design production
- Attended and participated in coordination workshops
- Review of Structural Steel, Reinforced Concrete and composite structural members following the BS codes, Euro-codes, and local standards.
- Produce design reports and design calculations to support structural design.
- Performing independent reviews based on QA/QC in addition to responding to contractors RFI's.
- Responsible for reviewing and assisting team leader engineer in the design production.
- Detail and Design of Tunnel Boring Machine (TBM) launch platform.

One Za'abeel ICD Headquarters. (February 2015August 2017)

- Responsible for the Concept and Preliminary Design of the 235m Steel Cantilever Link Bridge, determining sizes and performing Wind Analysis and Detailing of Steel structure.
- Responsible for conducting a full structural analysis of the Podium structure using ETABS including Seismic Analysis. The podium consists of 7 basements that are approximately 28m below ground level.
- Responsible for ensuring a fully coordinated design with other Engineering disciplines such as Building Services.
- Responsible for the production and checking of markups for CAD draftsmen.
- Responsible for reviewing and assisting team leader engineer in the design production.
- Attended and participated in workshops with Peer Reviewer.
- Attended meetings and responding to queries by Dubai Municipality and third-party reviewers.

Hyundai Meeras Dubai I (March 2015 - April 2015)

- Assisted in an Independent review of the terminal building of Largest Ferris wheel, based on QA/QC.
- Review of Structural Steel, Reinforced Concrete and composite structural members following the BS codes, Euro-codes, and local standards.
- Review of Drawings and Specifications.

Dubai Mall, Cinema Expansion (December 2014- February 2015)

- Responsible for the full Structural Analysis of Etabs model, and performing independent reviews based on QA/QC in addition to responding to contractors RFIs.

Meeras Bvlgari Hotels and Residences. (June 2014 - December 2014)

- Responsible for analyzing the Structural ETABS model of the Hotel structure and produce calculations and drawings of the horizontal elements (floor slabs & beams) of the hotel.
- Support the Lead Engineer with coordination with Building Services and Architect.
- Performed independent design verification of the design completed by other colleagues based on internal QA/QC procedures, and assisted team leader engineer with the preliminary and detail design of the Hotels and Residential structures

Al Barari Development - Seventh Heaven (April 2014 - June 2014)

- Assisted team leader engineer to perform serviceability checks and produce reinforcement schedules and markups for floor system.
- Produced markups for CAD draftsmen and checked them, assisted in the review of colleagues engineers to help meet deadlines.

Certifications

Nov 2015	<p>Theory and Practice Performance- Based Design <i>Computers and Structures, inc. (CSI)</i> A one day International Technology seminar by Ashraf Habibullah on the theory and practice of performance-based design of Earthquake Engineering,</p>
Mar 2013	<p>MIDAS Gen training <i>MIDAS GEN</i> One day training on the use of MIDAS for structural analysis and design for Bridges and Building structures.</p>
Jul 2012	<p>Symposium for Design of Fire resistance in structures <i>American University of Sharjah</i> Two day symposium on the theoretical and practical aspects of fire engineering in relation to structural stability in fire.</p>

Industry Participation

Jan 2015 - Sep 2015	<p>WSP Graduate Challenge <i>WSP Graduate Program</i> A member of the winning team of a four month research challenge on how to improve integration among different design disciplines within WSP.</p>
August 2016	<p>Advisory Board Member "Middle East Concrete" <i>MEC</i> Advisory Panel was to provide our views on the current concrete industry market and provide feed back on event to tailor the needs of the Construction and infrastructure industry.</p>
Oct 2016 - April 2017	<p>Early Career Leadership Program (ECLP) <i>WSP</i> ECLP is a 6 month training program with modules covering the various aspects of the business in areas Business Development, Commercial and Project Management.</p>
Oct 2017 - Jan-2018	<p>Regional Ambassador of "Women in Professional Services (WIPS)" <i>WSP</i> Ambassadors to provide and setup events to provide support and material for events and modules, to facilitate and hone leadership skills for women, and networking skills.</p>

Relevant Technical Courses

- Reinforced Concrete Design
- Theory of Structural Analysis
- Construction Material and Quality Control
- Prestressed Concrete Design
- Fundamentals of Structural Dynamics
- Project Estimation, Planning and Control
- Structural Steel Design
- Computer Methods in Structural Analysis
- Engineering Economy

Technical Program Skills

- ETABS
- SAFE
- SAP 2000
- TEDDS
- RAM CONCEPT
- PROKON
- LIMCON
- NAVISWORK
- REVIT
- AUTOCAD

Building Codes

- ACI 318
- BS CODES
- UBC 97
- CIRIA 97
- AISC
- ACI 435
- EURO CODES
- AS 3600
- ASCE 7

Professional References

Bob Scott, Technical Director- Structures, WSP Group Middle East, Dubai UAE

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James Maher, Associate- Structures, WSP Group Middle East, Dubai UAE

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Jonathan Huang, Technical Director- Structures, Atkins Global Middle East, Dubai UAE

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