

Mohammad Amer Alrahwan P.Eng., Ing.

OIQ- Member of Order des ingenieurs du Quebec-Canada. (ing. Engineer).

PEO- Professional Engineers Ontario. (P.Eng. Professional Engineer.)

EGBC- Member of Engineering and Geoscientists British Columbia (P.Eng. Professional Engineer)

SCE -Member of Saudi Council of Engineers (Consultant Engineer).

Member of Syrian Engineers Association (Professional Engineer)

Profile Summary

Structural analysis and design for all types of structures, Residential, Commercial, and industrial.

- 20 years of experience in Structural Analysis & Design.
- Bachelor of Civil Engineering -Al-Baath University, Syria.
- Strong theoretical knowledge of structural engineering principles.
- long experience in analyzing and designing tall buildings.
- Perfect experience in performing the static, dynamic and construction sequence analysis for structures considering time dependent.
- Solid Knowledge and perfect experience of work with design standards, such as CSA S16, CSA A23, NBCC, ACI , ASCE , AISC , IBC, UBC, AASHTO ...
- Perfect experience with structural software such as CSI software (Etabs, Safe, Sap) , PCA-Column , structural points software , Structural Office , AutoCAD, Midas design plus, Prokon.
- Creating structural reports and calculations.
- Reviewing structural shop drawings.
- Reviewing project specification and bill of quantities.

CORE COMPETENCIES / AREAS OF KNOWLEDGE

Structural analysis and design.	Creep analysis for concrete structures.
Static and dynamic analysis.	Foundation design.
Linear and nonlinear analysis.	Connection design.
Finite elements analysis.	Structural coordination.
Formulating structural design criteria.	Structural Modeling & Simulation.
Construction sequence analysis.	Value engineering.

MAIN JOB RESPONSIBILITIES

- Provide conceptual structural design through to detailed structural design.
- Carry out structural designs according to the local codes.
- Performs structural analysis using advanced structural software.
- Generate 3D finite elements structural models for concrete, and steel structures for purpose of structural analysis and design.
- Generate 2D finite elements models for concrete slabs, and foundation.
- Connection design.
- Design of retaining structures.
- Review the structural design and structural drawings made by others, ensure their accuracy.
- Coordinate structural designs and documents with other disciplines (Architectural, civil, mechanical, electrical, etc.).
- Reviewing the shop drawings submitted by other parties to ensure their conformity with the design drawings and building code requirements.
- Prepare structural detailed reports.

PROFESSIONAL EXPERIENCE

Senior Structural Engineer

2023-Present

Senior structural engineer at **Hatch Ltd** – Canada-Montreal

Consultant Senior Structural Engineer

2019-Present

Consultant Structural Engineer at **AIMS HOLDIN** - Jeddah -Saudi Arabia.

Senior Structural Engineer

2020-2021

Senior structural engineer at **Zarrabi& Associate** – Canada-Montreal. The main duties are:

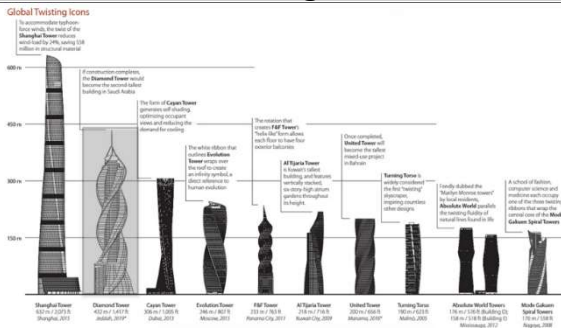
Senior Structural Engineer

2009 -2019

Senior Structural Engineer at **Zuhair Fayed Partnership Engineering Consultant Company** (Classified as one of the most important consulting companies) - Saudi Arabia.

Senior Structural Engineer

2014-2020



I am one of the two principals (Prof. Sohaib Alama and me) who designed the **DIAMOND TOWER**, which is the famous tall, twisted tower, our design was peer reviewed and approved by **Magnusson Klemencic Associates (MKA) Boston USA**.

Structural Engineer

2005-2009

- 1 Year Working as Structural Engineer at Mimar Group Consultant Company- Dubai-UAE
- 2 Years Working at DEC-Dynamic Engineering Consultant. Dubai-UAE.