

Holds B. Sc. and M. Sc. in Civil Engineering and has more than 7 years hands-on experience working as Steel Structure Design Engineer.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/01/1993  
Gender : Male  
Marital Status : Married  
Residence : Al-Obour, Cairo

## EDUCATION

- : B. Sc. in Civil Engineering, Ain Shams University, 2014
- : M. Sc. in Civil Engineering, Ain Shams University, 2020

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

- : Windows, MS Office, Internet
- : BIM Programs: Revit, Navisworks, Dynamo, BIM360
- : Programming languages: C#, PYTHON
- : Analysis: Static Analysis, Seismic Analysis, Finite Element Analysis
- : Analysis software: ETABS, SAP 2000, STAAD.Pro, Space Gas, ABAQUS
- : Connections software: IDEA statica, LIMCON, RAM, HILTI
- : Codes of Practice: ECP205, AISC360

## TRAINING COURSES AND CERTIFICATIONS

- : Training Course in SAP 2000.
- : Training course in Soft Skills.
- : Training course in Time management.
- : Summer trainings at:
  - Arab Contractors (2011).
  - Nile Company (2013).
  - Samacairo (2013).
- : M. Sc. courses:
  - Behavior of steel structures (ECP, AISC code).

- Cold formed steel structures (ECP, AISC code).
- Stability of steel structures.

## CHRONOLOGICAL EXPERIENCE RECORD

<b>Dates</b>	:	From 2018 till now
<b>Employer</b>	:	Cosmos Engineering & Consultants
<b>Projects</b>	:	<ul style="list-style-type: none"> <li>• EGAT Project - TRAESUEZ</li> <li>• EGYPTIAN ARMY STADIUM, NEW CAPITAL, EGYPT</li> <li>• Kuwait University, KUWAIT</li> <li>• Al-Mitlaa Residential City, KUWAIT</li> <li>• EGYPT INTERNATIONAL OLYMPIC CITY, NEW CAPITAL, EGYPT</li> <li>• Sphinx International Airport, EGYPT</li> <li>• OASIS INTERNATIONAL SCHOOL, NEW CAPITAL, EGYPT</li> <li>• HB FULLER FACTORY, EGYPT</li> <li>• SEDCO FACTORY, EGYPT</li> <li>• ALBUROUJ compound, Road of Cairo-Ismailia, EGYPT</li> <li>• SINOMA, EGYPT</li> <li>• CASH CENTER, NEW CAPITAL EGYPT</li> <li>• NEW OPERA, NEW CAPITAL EGYPT</li> <li>• MT Black Sand Project, EGYPT</li> <li>• REVIVING HUMANITY MEMORIAL CULTURAL PARK PROJECT, SHARM EL-SHEIKH, EGYPT</li> </ul>
<b>Job title(s)</b>	:	BIM Specialist, Steel Structure Team Leader
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• BIM Specialist Responsibilities: <ul style="list-style-type: none"> <li>- Manage, Audit and review models in Autodesk Revit.</li> <li>- Develop and implement BIM standards, templates, automation routines, documentation and workflow process standards.</li> <li>- Content creation: Families such as parametric, formula, nested and type catalogs.</li> <li>- Using Dynamo and C# to enhance different workflows and process automation instead of using API (Application programming interface) tools.</li> <li>- Collaborate and Coordinate with other disciplines design changes and model challenges.</li> <li>- Work as part of a BIM/CAD modeler team to achieve consistent results.</li> <li>- Adhere to BIM Execution Plan and BIM project workflow criteria.</li> <li>- Run and identify and document clashes between different discipline models as Reports using Navisworks Manage.</li> <li>- Prepare project specific training documentation and project BIM execution plans with the preparation of BIM protocols.</li> <li>- 4D Scheduling / Simulation using Autodesk Navisworks Manage&amp; Primavera.</li> </ul> </li> <li>• Steel Structure Team Leader Responsibilities: <ul style="list-style-type: none"> <li>- Set priorities, assigns work, makes sure operations are on-time and within budget and completed performance reviews.</li> <li>- Agree with the PM and the team members (junior engineers) on the task/project time schedule.</li> <li>- Give awareness to the team members with the project requirements.</li> </ul> </li> </ul>

- Prepare and Issue to PM RFIs as necessary immediately after receiving the task/project.
- Define and Setup: computer model, design methodology, design criteria, drawing methodology (title block, layers, numbering system, level of details, etc...), calculation report template, and BOQ template.
- Prepare, Certify and Issue to the PM: Design Criteria, Technical Specifications and Method of Measurements.
- Review, Approve, Certify and Issue in due time to the PM the design documents (computer model, calculation report, BOQ and drawings) in accordance with the project requirements, specifications, design criteria and time schedule.
- Prepare, Certify and Issue to the Section Head the design documents (computer model, calculation report, BOQ and drawings) in accordance with the Mega project requirements, specifications and design criteria.

**Dates** : From 2014 till 2018

**Employer** : DARS Expertise House (Prof. Dr. Mostafa Korshy)

**Projects** :

- Syria silos, SYRIA
- ECOBAT, El Ain Sokhna, EGYPT
- El Harmen Railway Station, KSA
- Wared Logistics, EGYPT
- DANA Moll Extension, KSA
- Golds Gym, KSA
- EL JARED Warehouse, Main factory, KSA
- El Watania Warehouse, EGYPT
- Tawokle, EGYPT
- DELTA, EGYPT

**Job title** : Steel Structure Design Engineer

#### **Freelancer Projects:**

- ALLOY METALS - DUBAI, UAE:
  - ICON BAY RESEDINTIAL BUILDING.
  - THE ROYAL ATLANTIS RESORT AND RESIDENCES.
  - HARBOUR GATE (EXHAUST AIR VENT, PLATFORM).
  - INTEGRATED SIMULATION CENTRE.
  - GRC Dome.
- BSI. Steel - QATAR: Prepare Estimated Design and Quantities for many projects.
- G.TECH - EGYPT: Prepare Design calculations and design drawings for Crane Bridges and Spreader Beams.
- EL SAFOA Factory - EGYPT: Prepare Design calculations and design drawings for many Warehouses.
- MORAD Office - EGYPT: Prepare Design calculations and design drawings for many Warehouses.
- A PLAN Office - KUWAIT: Modelling of many projects using REVIT.

#### **RESEARCHES:**

- PAPERS:

- “Lateral Torsional Buckling Resistance of Triangular Web Profile Steel Beam” paper published at Ain Shams Conference.
- “Bending Behavior of Triangulation web profile Steel Beam” paper published at International Journal of Scientific & Engineering Research.
- Prepare a case study on the effect of longitudinal bracing on sway in portal frame steel structures.

- Field of experience :**
- BIM Specialist with 4 years professional experience and Steel Structure Design Engineer with 7 years of experience.
  - Specialize in Manage, Audit and review models in Autodesk Revit. Collaborate and Coordinate with other disciplines design changes and model challenges.
  - Specialize in the Design, Detailing and prepare Bill of quantity for both industrial and residential projects.
  - Expert in Revit, Dynamo, Revit API, NAVIS, AutoCAD, Tekla, SAP 2000, Etabs, Staad and Microsoft Office.
  - My previous experience includes working in a government research facility where I evaluated and managed the troubleshooting of several structural projects, I also consulted on the analysis and safety of Steel Structure Buildings.
  - Also just finished the BIM management Path from KAITECH.