

Ahmed Hussein EL-Tresy

Senior Structural Engineer

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Accomplished Senior Structural Engineer with 12+ years of expertise in shop drawing, BIM coordination, and project leadership. Proficient in Revit, Tekla Structures, AutoCAD, ArmaCAD, ASD, RCD, and creating precise shop drawings and Bar Bending Schedules (BBS). Certified in PMP, PMI-RMP, and PMO-CP, with a proven track record of driving efficiency, leading high-performance teams, and delivering exceptional results. Passionate about leveraging innovative technologies like Generative AI to elevate project quality, streamline workflows, and exceed client expectations.

KEY COMPETENCIES

- ArmaCAD, ASD, RCD
- BIM (Building Information Modeling)
- Revit, AutoCAD
- Tekla Structures
- Shop Drawings
- Bar Bending Schedules (BBS)
- 3D Modeling
- Project Management
- Risk Management
- BOQ (Bill of Quantities)
- Project Coordination
- Team Leadership
- Problem Solving
- Communication Skills
- Time Management

PROFESSIONAL EXPERIENCE

Senior Structural Engineer | Mofarreh Al-Harbi & Partners CO.

Mar 2024 – Present

- Lead BIM coordination, ensuring seamless integration across all disciplines, and resolve design conflicts proactively.
- Manage the preparation and validation of BOQs, ensuring precise cost estimation and alignment with project requirements.
- Deliver high-quality, detailed shop drawings (LOD 400), ensuring structural integrity and compliance with project standards.
- Produce accurate As-Built drawings (LOD 500) based on finalized designs, ensuring comprehensive and precise project records.
- Collaborate with cross-functional teams, optimizing design and construction processes to ensure timely and cost-effective project completion.
- Prepare and review shop drawings for structural works in accordance with project specifications and engineering standards.
- Develop accurate reinforcement detailing drawing and bar bending schedules.
- Interpret architectural and structural drawings and translate them into precise execution drawings.
- Conduct quantity take-offs and prepare detailed quantity surveying reports.
- Assist in preparing payment certificates and progress reports.
- Ensure compliance with building codes, specifications, and client requirements.
- Coordinate with design, site, and project management teams to resolve technical issues.

Projects:

- Modon Dammam3-Industrial City Development:** Produced detailed shop drawings using ArmaCAD software.
- Qiddiya:** Produced detailed shop drawings for culverts utilizing ArmaCAD software.
- Sindalah Island, Neom:** Produced detailed shop drawings and As-built drawings using Revit (LOD 400 & LOD 500).
- Trojena Base Camp Operation, Neom:** Developed detailed shop drawings utilizing ASD software.
- Waad Al Shamal, Ma'aden:** Created comprehensive shop drawings using ASD software.
- Ras Al-Khair Bridges:** Prepared detailed Bill of Quantities (BOQ) for bridges using AutoCAD and Excel.

Technical Office Engineer | MOBCO Group

Mar 2023 – Feb 2024

- Oversaw and validated subcontractor invoices, ensuring compliance with contractual terms and facilitating timely payments.
- Conducted comprehensive reviews of the Bill of Quantities (BOQ) against project specifications, ensuring precise cost control and alignment.
- Analyzed and interpreted project documentation, including time schedules, design drawings, and BOQs, to ensure compliance and mitigate risks.
- Spearheaded the implementation of technical office procedures, optimizing project workflows and improving operational efficiency.
- Delivered technical support and ensured accurate documentation, contributing to the successful execution and delivery of projects.

Projects:

- KAFD, Riyadh
- Al-Madinah Schools, Madinah
- Red Palace, Riyadh
- STC Bank, Riyadh
- Bank Albilad, Al-Khobar
- Neom Projects

Instructor | Udemy

Jan 2019 – Feb 2022

- Developed and delivered detailed online courses on structural engineering software, including Tekla Structures, AutoCAD, and AutoCAD structural Detailing (ASD).
- Created comprehensive course materials and step-by-step tutorials to enhance student understanding and engagement.
- Managed course updates and improvements based on user feedback, ensuring content remained relevant and high-quality.
- Provided personalized support and guidance to students, fostering a positive and productive learning environment.
- Achieved high student satisfaction through effective course delivery, clear explanations, and practical applications.

Structural Engineer | Freelance

Apr 2015 – Feb 2023

- Created and updated structural shop drawings for diverse projects, including bridges, residential, and commercial buildings.
- Prepared detailed Bar Bending Schedules (BBS) and cutting lists, ensuring precise material requirements for construction.
- Developed 3D structural models using Tekla Structures for both concrete and precast concrete buildings to enhance design accuracy and project coordination.
- Provided expert technical support to clients and contractors, ensuring that designs met project specifications and standards.
- Produced comprehensive structural documentation, adhering to local building codes, regulations, and client expectations.

Projects:

- WO 009 Gulf of Aqaba South Construction Road Works (Box and Pipe Culverts)
- King Abdullah International Gardens (KSA)
- New Central Bank of Egypt (New Capital, Egypt)
- RA/223 Project – 6.5 Ring Road (Kuwait)
- New Capital, Governmental District (Ministries Buildings, New Capital, Egypt)
- IPSO Project – Integrated Public Security Operations 911 (Riyadh, KSA)
- Beban Hotel (KSA)
- Ecole Française Internationale de Jeddah (KSA)
- Arab Language International Center (KSA)
- EBJ Private Villa (KSA)
- Mohammad Bakr Beach House (KSA)

Team Leader, Technical Office | REDCON Construction Co. S.A.E.

Sep 2021 – Jan 2022

- Led the review and coordination of subcontractors' and outsourced shop drawings, ensuring alignment with project specifications and managing the approval process with the project consultant.
- Collaborated with the Senior Technical Office Engineer to identify and address technical issues by preparing Requests for Information (RFIs) for missing, unclear, or conflicting information during construction.
- Maintained and updated the shop drawing log to ensure timely submission to the consultant for approval.
- Contributed to the development and implementation of technical office policies and procedures, enhancing operational efficiency.
- Ensured effective communication and coordination across teams to maintain project timelines and technical accuracy.

Projects:

- Magra Al Oyoun Development Plan (Cairo, Egypt)

BIM Modeler | Trojan General Contracting LLC

Jan 2019 – Mar 2019

Structural Engineer | Behairy Consulting Engineering - BCE

Jul 2015 – Apr 2018

Tekla Structural Modeler | DESIGNAZER

Nov 2014 – Feb 2015

Tekla Structural Modeler | Dr. Hatem Hassan's Office

Oct 2013 – Oct 2014

Trainee | Al Alamia Co. for Contracting

Jul 2011 – Sep 2011

CERTIFICATIONS

- **PMI-PMOCP** | Project Management Institute | Feb 2025
- **PMI Risk Management Professional (PMI-RMP)** | Project Management Institute | Jan 2025
- **Generative AI Overview for Project Managers** | Project Management Institute | Dec 2024
- **PMO Certified Practitioner (PMO-CP)** | Project Management Institute | Dec 2024
- **Practical Application of Gen AI for Project Managers** | Project Management Institute | Dec 2024
- **Talking to AI: Prompt Engineering for Project Managers** | Project Management Institute | Dec 2024
- **Project Management Professional (PMP)** | Project Management Institute | Nov 2024
- **Data Landscape of GenAI for Project Managers** | Project Management Institute | Nov 2024
- **HTML Essential Training** | LinkedIn | Dec 2023
- **Introduction to Web Design and Development** | LinkedIn | Dec 2023
- **Practical CSS for No-Coders** | LinkedIn | Dec 2023
- **Practical HTML for No-Coders** | LinkedIn | Dec 2023
- **Cert Prep: Revit Structure Certified Professional** | LinkedIn | Sep 2023
- **Creating Concrete Buildings with Revit Structure** | LinkedIn | Aug 2023
- **Revit 2021: Essential Training for Structure (Metric)** | LinkedIn | Aug 2023
- **Digital Marketing Certification** | Google Digital Garage | Sep 2020

EDUCATION

Bachelor of Civil Engineering

Cairo University | 2013

Grade: Good

LANGUAGE

- **Arabic:** Native
- **English:** Professional Working Proficient