

Mahmoud Elhefnawy

Senior Road Design & Technical office Engineer

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CAREER OBJECTIVE

Seeking a challenging position as a manager or Team Leader in a reputable organization in Saudi Arabia where I can utilize my 10 years of expertise in road design, quantity surveying, and infrastructure project execution.

PROFESSIONAL SUMMARY

Results-driven Road and Infrastructure Engineer with 10 years of experience in road design, quantity surveying, and execution of large-scale infrastructure projects. Proficient in ITS systems, intersection design, and preparing BOQs, shop drawings, and project schedules. Skilled in AutoCAD Civil 3D, subassembly composer, Navisworks, Infra Works 360, Dynamo, Global mapper and MS Project, with a proven ability to coordinate multidisciplinary teams and ensure high-quality project delivery. Strong background in contract review, technical documentation, and urban traffic solutions, with hands-on expertise across the full project lifecycle.

KEY SKILLS

Technical Skills:-

- AutoCAD Civil 3D
- Microsoft Project | Excel
- Intelligent Transport Systems (ITS)
- Quantity Surveying & BOQ Preparation
- Technical Office Operations
- Project Timeline & Scheduling
- Microsoft Office (Word, Excel, PowerPoint)

Soft Skills:-

- Strong Communication & Presentation
- Problem Solving
- Adaptability under Pressure
- Negotiation & Persuasion
- Leadership
- Attention to Detail
- Continuous Learning Mindset

WORK EXPERIENCE

- **Deputy Manager – Road Design Department**

KOLIN Construction NEOM, Trojena Project | Sep 2025 – Feb 2026.



- **Key projects**

- Overseeing and coordinating road design activities within the Trojena project, ensuring compliance with NEOM's engineering standards and sustainability goals.
- Supporting the Road Design Manager in planning, reviewing, and approving design deliverables from consultants and contractors.
- Collaborating with multidisciplinary teams (infrastructure, environment, and construction) to integrate road design with overall project objectives.

- Managing project schedules, design progress, and quality control for all road design works.
- Preparing technical reports, design reviews, and presentations for senior management and stakeholders.

- **Senior Road Design Engineer (Team Leader)**

YUKSEL INSAAT SAUDIA CO. LTD | Riyadh | Nov 2023 – August 2025



- **Key Projects**

- **Wadi Al-Sulay Development – Phase Four**

- Designed arterial and collector roads with complete horizontal and vertical alignment, ensuring compliance with Riyadh Municipality standards.
- Prepared detailed shop drawings and quantity take-offs for asphalt, base layers, and sub-base materials.

- **Riyadh City Intelligent Transport Systems (ITS)**

- Contributed to the design and integration of ITS infrastructure, including traffic signal systems, dynamic signs, and CCTV surveillance.
- Ensured ITS components aligned with urban road networks, improving traffic data efficiency by 35%

- **Traffic Congestion Engineering Solutions – Riyadh**

- Conducted traffic analysis and proposed intersection upgrades and lane adjustments, improving flow during peak hours by 15–20%.
- Coordinated with urban planning teams to integrate low-cost, high-impact engineering interventions.

- **Senior Technical Office Engineer**

Hassan Allam Roads & Bridges | Cairo | Apr 2020 – Nov 2023



- **Key Projects**

- **Alexandria–Cairo Main Road Upgrade (20 KM)**

- Supervised road widening and pavement rehabilitation works; delivered accurate BOQ and quantity take-offs to support efficient project control..

- **Sphinx International Airport – Taxiway & Apron Works**

- Reviewed airside pavement designs and coordinated technical drawings for taxiways and apron areas in line with aviation standards.

- **26 July Axis Upgrade (1.5 KM)**

- Prepared as-built documentation and verified design-shop drawing alignment for this key arterial link in Cairo’s road network.

- **Alexandria–Cairo Service Road Upgrade (35 KM)**

- **Upper Highway Roads Upgrading:**

- **Bani Suef–El Korimat (15 KM)**

- **El Sheikh Fadel–El Minya (20 KM)**

- Conducted comprehensive quantity surveying and prepared sub-contractor invoices

- **Technical Office Engineer**

Engineering Authority of Egyptian Armed Forces – Road Branch | Dec 2016 – Apr 2020



- **Key Projects – New Administrative Capital Infrastructure**

- Regional Ring Road
- Support Road for Regional Ring Road
- Mohammed Bin Zayed North Axis
- Mohammed Bin Zayed South Axis
- Extension of Al-Amal Axis
- Roads of Canadian University Area
- Roads of Residential Districts No. 1, 2 & 6
- Ring Road of Al-Fattah Al-Aleem Mosque

- **Core Responsibilities:**

- Conducted land and topographic surveying for new road corridors using total stations and GPS equipment.
- Prepared accurate BOQs and quantity take-offs for road layers, curbstones, sidewalks, and infrastructure elements, reducing material estimation errors by 15%, saving approximately 10% in project costs.
- Developed shop drawings and coordinated with design teams to ensure alignment with execution plans, resulting in a 20% decrease in design-related site reworks.
- Produced surveying sheets and setting-out plans that enabled precise fieldwork implementation, increasing on-site accuracy by up to 98% and reducing project delays by 12%.
- Prepared and submitted invoices for subcontractors and suppliers on time, ensuring 100% payment compliance and improving budget tracking efficiency by 30%.

EDUCATION

- **B.Sc. in Civil Engineering**

- Higher Institute for Engineering and Technology, Al-Mansoura – Egypt
- Graduation Year: 2016
- Overall Grade: Very Good

LANGUAGE

- **Arabic** – Native
- **English** – Advanced High (LevelC1)

CERTIFICATIONS

- Certified Engineer – Saudi Council of Engineers (SCE)



KOLIN CONSTRUCTION, TOURISM, INDUSTRY and TRADING CO INC.

شركة كولين انشاءات وتوريد صنای في تیکارات ای اس

رقم السجل التجاري: 2051059920 Commercial Registration No

REF: KLN/2026-02

DATE: 19 February 2026

EMPLOYMENT CERTIFICATE

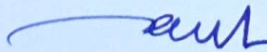
This is to certify that **Mr. MAHMOUD ADELHAKEM MAHMOUD ELHEFNAWY**, Employee No. **A-05085**, Passport No. **A33659003**, and Iqama ID **2561237385**, was employed with **Kolin İnşaat Turizm Sanayi ve Ticaret A.Ş.** as a “**SENIOR DESIGN ENGINEER**” in the **DESIGN** Department for the **NEOM – Trojena Package 1 & 2 Projects, KSA.**

His period of employment was from **15/9/2025** to **17/2/2026.**

During his tenure, he consistently demonstrated a strong sense of responsibility, professionalism, and dedication to his assigned duties. We have no hesitation in recommending him to any organization that may require his services.

This certificate is issued upon his request for any legal purpose it may serve.

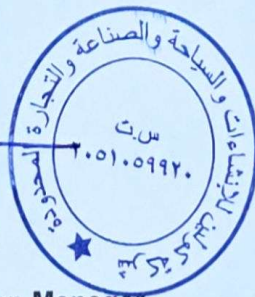
Sincerely,



Mr. UGUR YILMAZ

HR & Administration Manager

Kolin İnşaat Turizm Sanayi ve Ticaret A.Ş.



Management System
ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007

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Membership no.:990278

عضوية رقم: 990278

In accordance with the Regulations of Saudi Council of Engineers by Royal Decree M/36 Date 26/9/1423H and the Engineering Professions Practice Regulation by Royal Decree M/36 Date 19/4/1438 H. SCE has approved:

استناداً إلى نظام الهيئة السعودية للمهندسين الصادر بالمرسوم الملكي رقم م/٣٦ وتاريخ ٢٦/٩/١٤٢٣هـ ونظام مزاولة المهن الهندسية الصادر بالمرسوم الملكي م/٣٦ وتاريخ ١٩/٤/١٤٣٨هـ ولائحته التنفيذية فقد قررت الهيئة اعتماد:

MAHMOUD ADELHAKEM MAHMOUD
ELHEFNAWY

محمود عبد الحكيم محمود الحفناوى

Membership Category: Engineer

فئة العضوية: مهندس

Specialization: Civil Engineering

التخصص: هندسة مدنية

Membership Start Date: 11/30/2023

تاريخ بداية العضوية: 11/30/2023

This Certification is valid until: 30 November 2026

هذه الشهادة صالحة إلى تاريخ: 20 جمادى الثانية 1448



Secretary General الأمين العام

المكلف / م. فيصل بن عبدالله اليمني



Digitally signed