

FAROUK AHMED

CIVIL ENGINEER- Highway Design and Technical Office Engineer / Infrastructure Technical Office Engineer

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PROFESSIONAL SUMMARY

Civil Engineer, with 8+ years of diverse experience in highway design, infrastructure projects, and quantity surveying across Egypt and Saudi Arabia. Proven ability to manage large-scale roadworks, produce precise shop drawings, and coordinate technical office tasks. Adept at using industry-standard tools like Civil 3D, AutoCAD, and PVSyst, and seeking a dynamic opportunity within a multinational consultancy or progressive organization to develop my expertise further.

TECHNICAL SKILLS

- **Design Software:** AutoCAD 2D, Autodesk Civil 3D, Vehicle Tracking, SketchUp.
- **GIS & Mapping:** Google Earth, Global Mapper.
- **Office Software:** Microsoft Office Suite (Excel, Word, PowerPoint).

PROFESSIONAL EXPERIENCE

Al-Omaier Trading And Contracting Co. (KSA)

Senior Technical Office Engineer .

Jun 2024 - Present

- Reviewed all design packages and shop drawings for roads and infrastructure works.
- Redesigned and modified the original road design in some cases, following consultant recommendations respecting the AASHTO code for road design.
- Designed traffic detours to maintain traffic flow during construction phases.
- Attended technical meetings; provided design proposals, and supported project execution.
- Personally coordinated with all major relevant Riyadh authorities.
- Prepared BOQs, material data sheets, and conducted quantity surveying.
- Oversaw field surveying, setting out, and monitored GPS, leveling, and total station equipment.
- Final Quantity revision with the owner and consultant.

El- Masria Road Construction (Egypt)

Technical Office Manager.

Jan 2023 - Jun 2024

- Performed all technical office tasks required for road and infrastructure projects.
- Reviewed and modified design drawings in accordance with project specifications.
- Prepared accurate quantity take-offs and bills of quantities (BOQs).
- Coordinated with client/owner representatives for design and quantity approvals.
- Monitored site activities to ensure compliance with design and construction schedules.
- Prepared interim and final payment certificates for subcontractors.
- Assisted in the initiation and technical planning of new infrastructure projects.
- Conducted detailed price and cost analysis for various project components.

Orascom Road Construction (Egypt)

Senior Highway Design and Technical Office Engineer

Jan 2020 – Jan 2023

- Produced shop drawings and managed site surveying for quantity estimations.
- Designed traffic detours to maintain traffic flow during construction phases.
- Oversaw field surveying, setting out, and monitored GPS, leveling, and total station equipment.
- Supervised roadworks in collaboration with the Armed Forces Engineering Authority.

- Reviewed designs, prepared BOQs, monitored execution quantities, and conducted final quantity approvals.
- Reviewed design drawings and identified inconsistencies or issues.
- Proposed and implemented necessary design modifications to resolve on-site problems.
- Designed new road layouts and modifications as required during project execution.
- Ensured that all design updates complied with project standards and client requirements.

Armed Forces Engineering Authority (Egypt)

Technical Office Engineer

Jan 2017 – Jan 2020

- Produced shop drawings and managed site surveying for quantity estimations.
- Oversaw field surveying, setting out, and monitored GPS, leveling, and total station equipment.
- Supervised roadworks .
- Reviewed designs, prepared BOQs, monitored execution quantities, and conducted final quantity approvals.
- Reviewed design drawings and identified inconsistencies or issues.
- Proposed and implemented necessary design modifications to resolve on-site problems.
- Designed new road layouts and modifications as required during project execution.
- Ensured that all design updates complied with project standards and client requirements.

PROJECTS

Khuzam Suburb Project- Enabling & infrastructure Package - Riyadh

A large-scale earthworks and infrastructure project with a total value of approximately SAR 400 million, under the National Housing Company (NHC). The scope includes approximately 25 million cubic meters of cut, 19 million cubic meters of fill, and the execution of complete infrastructure utility networks.

King Fahd Suburb Project – Dammam

A major infrastructure development project located in Dammam, with a total value exceeding SAR 500 million. The scope includes the construction of comprehensive sanitary sewer networks, including main lines, house connections, manholes, and related infrastructure works, serving a large residential area in the King Fahd Suburb.

CAIRO- ALEX DESERT MAIN ROAD UPGRADING – Egypt

A 40 km road expansion and rehabilitation project aimed at upgrading the Cairo–Alexandria Desert Road. The upgraded road features 20 meters of width per direction, including additional lanes and improved structural layers. The project focuses on enhancing traffic capacity, safety, and overall road quality.

Ras El Hekma Road Project – Egypt

A road construction project with a total length of 30 km, featuring a 25-meter-wide main carriageway and a 15-meter-wide service road in each direction. The project also includes the installation of 10 box culverts for stormwater and flood protection.

Cairo–Alexandria Desert Road (Service Road) Upgrade Project – Egypt

A 90 km service road expansion and redesign project as part of the overall development of the Cairo–Alexandria Desert Road. The service road features a 20-meter width per direction and involves full redesign, widening, and upgrading to enhance capacity, safety, and accessibility alongside the main highway.

High-Speed Electric Railway Project – Egypt

A section of the high-speed electric railway project with a total length of 10 km, involving large-scale cut and fill earthworks executed in accordance with railway construction specifications and standards. The works ensure proper formation levels, stability, and alignment suitable for high-speed rail operations.

Middle Ring Road Project – Egypt

A major road construction and infrastructure project, including the development of 50 km of the Middle Ring Road, along with approximately 30 km of auxiliary roads and connectors such as Shaq El-Thu'ban Axis, Mohamed Naguib Axis, Ain Sokhna Road, Nile Corniche, and Autostrad Road. The scope covered:

- New road construction, widening, and upgrading
- Extensive cut and fill operations
- Integration with tunnels and overpasses
- Full relocation and reconfiguration of infrastructure networks, including utilities (water, sewage, electricity, telecom)
- Connectivity improvements between main and secondary roads.

SOFT SKILLS

Team Collaboration

Problem-Solving

Time Management

Adaptability

Attention to Detail

Rules and Time Respect

EDUCATION

Bachelor of Civil Engineering

2012 - 2017

Canadian International College (CIC),
affiliated with Cape Breton University

COURSES & CERTIFICATES

- Occupational safety and health Administration (OSHA).
- Employability skills track by Aspire
- AutoCAD Civil 3D – Self-learned
- AutoCAD 2D – Self-learned
- Microsoft Office – Self-learned

LANGUAGES

- Arabic, Native
- English, Very good