

Mohamed Elgarhy

Civil Engineer

Roads & Highways | Infrastructure | Quantity Surveying

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LinkedIn: linkedin.com/in/m-elgarhy/
Address: Riyadh, KSA

Summary

Civil Engineer (4 yrs.) specialized in road/intersection design, water channels, quantity surveying, and technical office coordination for multi-site urban projects in KSA & Egypt. Expert user of AutoCAD Civil 3D and advanced Excel; familiar with Infracore, Navisworks, Global Mapper and ArcGIS. Proven ability to improve engineering workflows, coordinate across disciplines, and deliver technically sound, on-time project deliverables.

Technical Expertise

- Road Geometry & Grading
- Intersection Rehabilitation
- Quantity Surveying & BOQ
- Geotechnical Soil Improvement Methods
- Topographic & Drone Imagery Integration
- Civil 3D Automations (Subassembly Composer, Dynamo)
- Infrastructure Visualization (Infracore)
- Team Leadership & Stakeholder Liaison
- Data Analytics & Dashboarding (Excel, Power BI)

Professional Experience

YÜKSEL İNŞAAT SAUDIA

Riyadh, KSA

Road Design Engineer

Sept 2024 – Present

- Reviewed tender designs and developed shop drawings for 50 road intersections (32 under ITS, 20 under ESTC), covering grading, demolition, traffic-sign, and pavement-marking plans.
- Introduced innovative grading-workflow methods and Civil 3D best practices, increasing plan production efficiency by $\approx 25\%$.
- Coordinate 2-5 CAD & Civil 3D drafters, aligning deliverables with Saudi Highway Code & AASHTO.
- Participated in shop drawings for flood-management structures in the Bersha'a Valley project.

EL-SHEBLY FOR GENERAL CONTRACTING

Alexandria, Egypt

Quantity Survey Engineer / Technical Office

Jun 2023 – Sept 2024

- Managed QS and invoicing for 8 projects totaling > 900 M EGP, maintaining < 1 % variance between quantity take-offs and certified invoices.
- Collaborated closely with project consultants to review drawings and promptly address design-related issues.
- Supported multiple Technical Office Engineers, contributing to projects efficiency and quality.

Hydro Envir. & Infra. Str. Studies (Consultant)

Alexandria, Egypt

Road Design Engineer

Dec 2022 – Jun 2023

- Produced comprehensive shop drawings and layout drawings, managing elevation data, facilitating precise construction and alignment across 90 kilometers of infrastructure.
- Oversaw key aspects of major infrastructure projects, leveraging Civil 3D, Infracore, and Excel for planning and design
- Spearheaded surveying and design tasks, collaborating closely with project 4 surveying teams.

Egy Armed Forces Engineering Authority – K69

Alexandria, Egypt

Technical Office Engineer

Sept 2021 – Dec 2022

- Oversaw data management for 44 km infrastructure PPP involving 40 companies; processed 15 M m³ backfill and 11 M linear m of PVD & preloading techniques.
- Supervised 2 engineers & 2 document-control officers; coordinated with QA/QC teams to ensure adherence to project standards.
- Utilized Excel to compile weekly progress reports and follow-up trackers, providing clear visibility on schedule and quality status.

Selected Projects

- ITS Riyadh City Roads & ESTC (KSA) — Intersection upgrades, road widening & extensions, traffic signal modifications
- Bersha'a Valley Flood Management (KSA) — Shop drawings for flood-mitigation structures
- West Alamein Road Network (EGY) — New Road infrastructure for West Alamein City
- El-Mahmoudia Axis and Channel Development (EGY) — Channel upgrade and new road axis development along the waterway
- High-Speed Rail EET Sectors 5-6 (EGY) — Alignment & earthworks support
- El-Ta'meer Axis Extension (Abo Zekry Axis) (EGY) — Road construction and lake backfilling for a new urban corridor
- New Delta Artificial River (EGY) — 90 km earthworks, U-section canal

Certifications & Training

- **Career Essentials in Data Analysis — Microsoft & LinkedIn (2024)**
- **Stormwater Drainage Network Course — Array Holding (2023)**
- **Survey & QC of Road Materials — Smart Survey Office (2021)**

Languages

- English (Full professional proficiency)
- Arabic (Native)

Education

B.Sc. Civil Engineering — Nile Academy for Engineering, Egypt (2016 – 2021)

Project: Ports & Harbors — Al-Dabaa Harbour Berthing Facilities Design

Other Details

GCC Driving License (Saudi) | Valid transferable Iqama

Notice period – 1 month (confirm)

Willing to relocate across GCC



M. Elgarhy

Roads & Highways

Civil Infra Engineer



Mohamed Elgarhy

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Dedicated **Civil Engineer** with **4 years** expertise in **infrastructure projects, Roads, Traffic, Open Channels, and Earthworks**. Proficient in **BIM Modeling**, and **Quantity Surveying**, with a strong track record in both contractor and consultant roles



Experience

- 2024-Present **Road Design Engineer** YÜKSEL İNŞAAT SAUDIA
- 2023-2024 **Quantity Survey Engineer** El-Shebly Group
- 2022-2023 **Road Design Engineer** Hydro Envir. & Infra. Studies
- 2021-2022 **Technical Office Engineer** Egy Armed Forces Engineering Authority

Education

- 2016-2021 **Bachelor in Civil Engineering**

Skills

-  **AutoCAD Civil 3D** + + + + +
-  **Subassembly Composer** + + + + +

-  **Autodesk Infracore** + + + + +

Cover letter

M. Elgarhy (Civil Engineer)

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Welcome to my portfolio!

I'm Mohamed, a highly creative and motivated individual, with a passion for Civil Engineering, CAD Design and Modeling. My portfolio is filled with unique and inspiring content, which showcases my skills in the field.

Here you will find everything ranging from CAD Drawings, BIM Models, Cross-Sections and more. I strive for excellence in all that I do, and this portfolio serves as a testament to my capabilities and accomplishments.

Have a look around, get to know me better, and don't hesitate to reach out if you have any questions or would like to collaborate!

Sincerely,

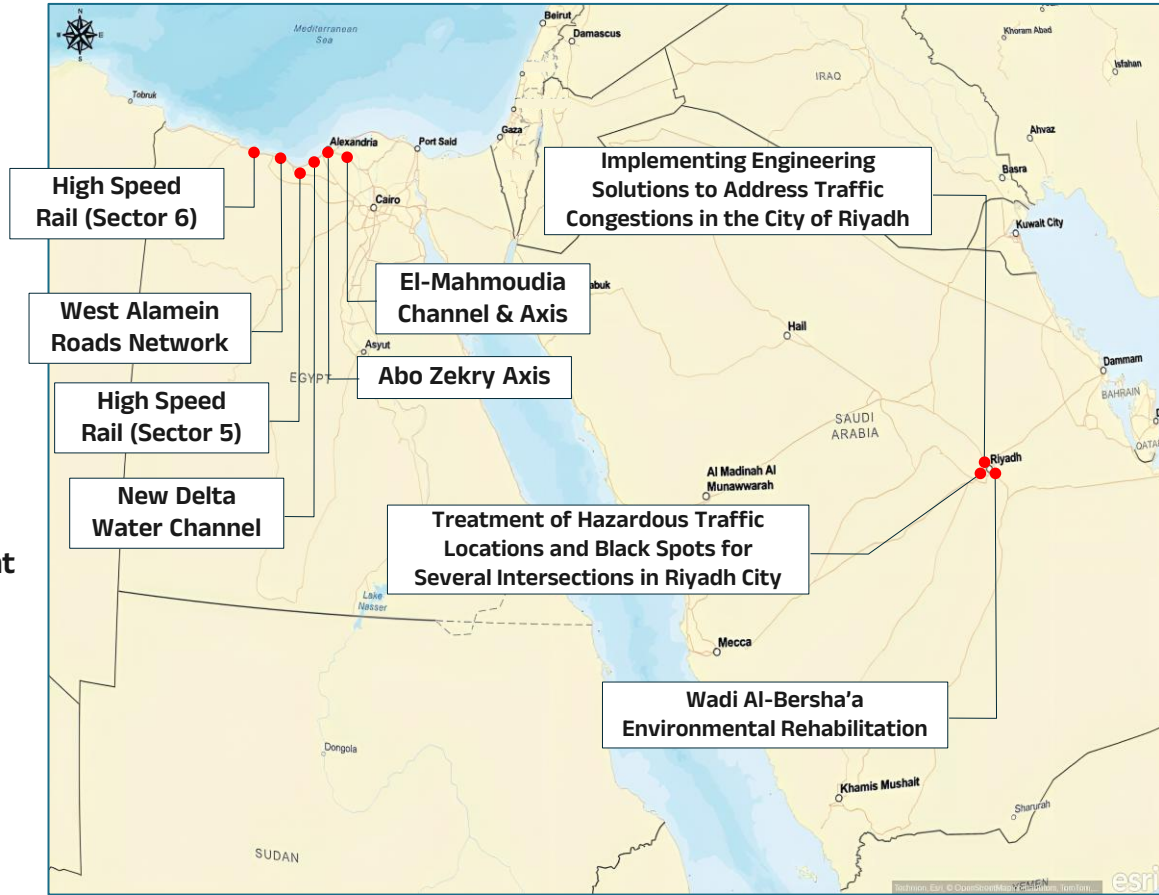


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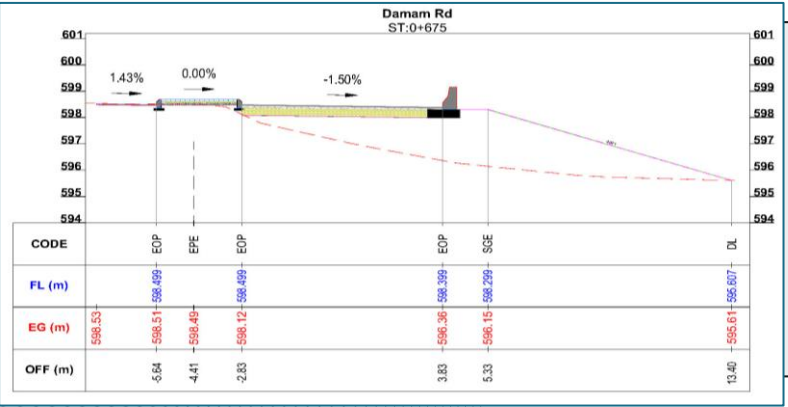
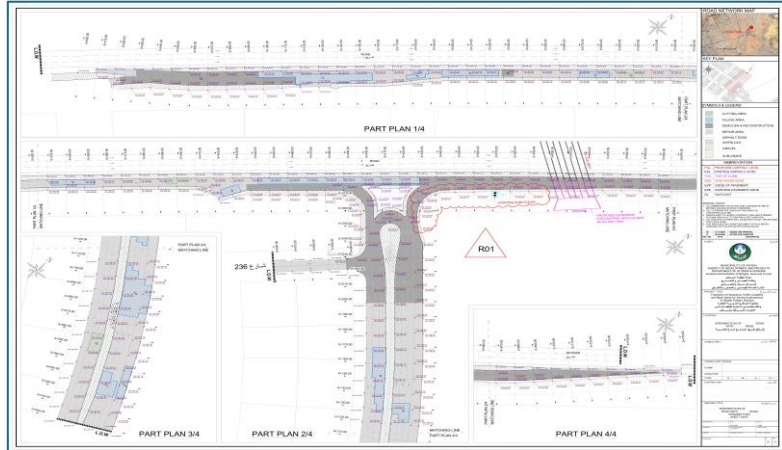
Projects Map

- ESTC
- ITS
- Wadi Al-Bersha'a Environmental Rehabilitation
- New Delta Water Channel (Artificial River)
- Abo Zekry Axis (El-Ta'meer)
- El-Mahmoudia Channel & Axis Development
- West Alamein Roads Network



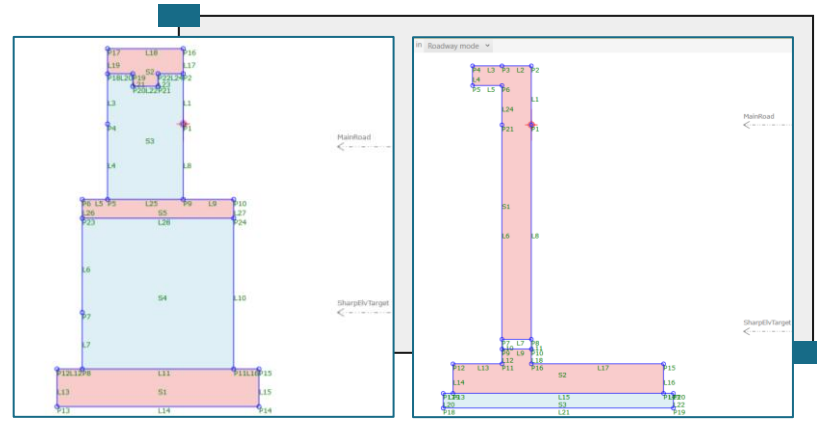
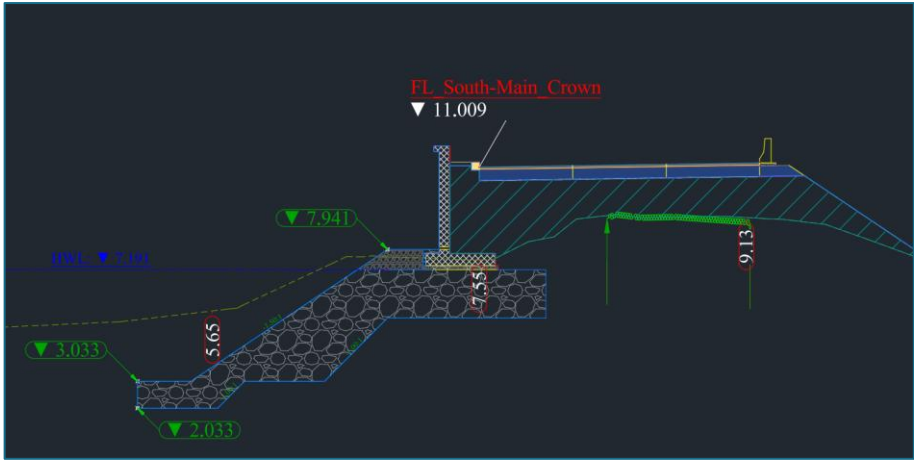
Project: Treatment of Hazardous Traffic Locations and Black Spots for Several Intersections in Riyadh City

“Reviewed intersection designs and prepared shop drawings to improve safety & traffic flow, focusing on asphalt grading, layout, and traffic signal plans per SHC 2022 and AASHTO..”



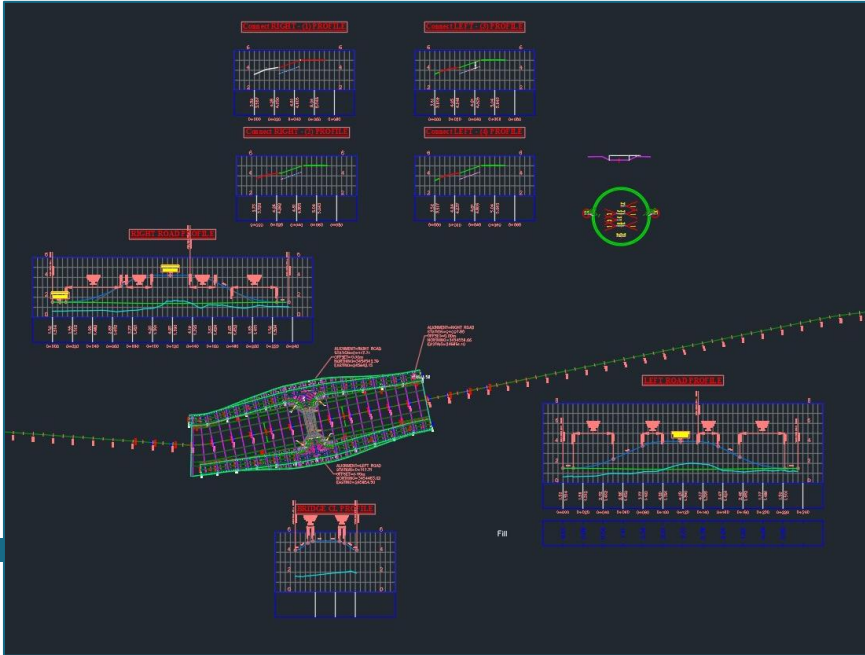
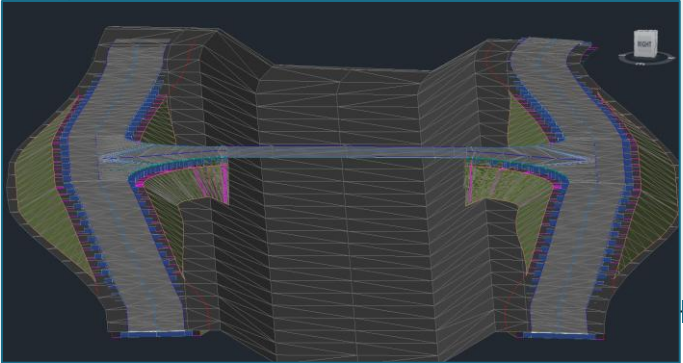
Project: El-Mahmoudia Axis & Channel

“Created detailed and custom cross sections using subassembly composer to combine various structures with road elements to perform accurate Quantity Surveying.”



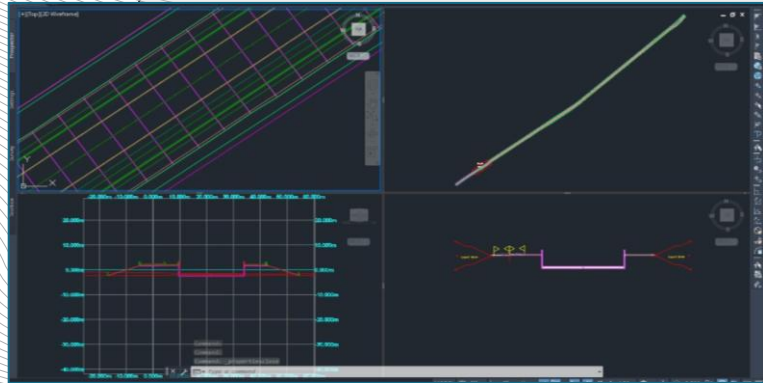
Project: Egypt New Delta Artificial River (Agricultural Sect.)

“Created detailed and custom cross sections using subassembly composer, drafting for execution and guided survey teams by providing the required data for seamless and accurate execution.”



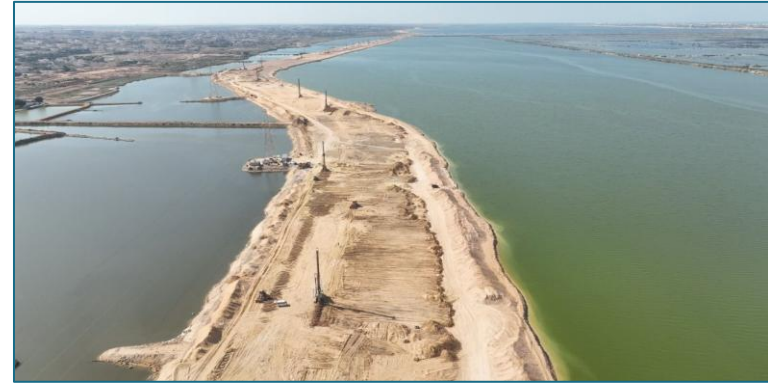
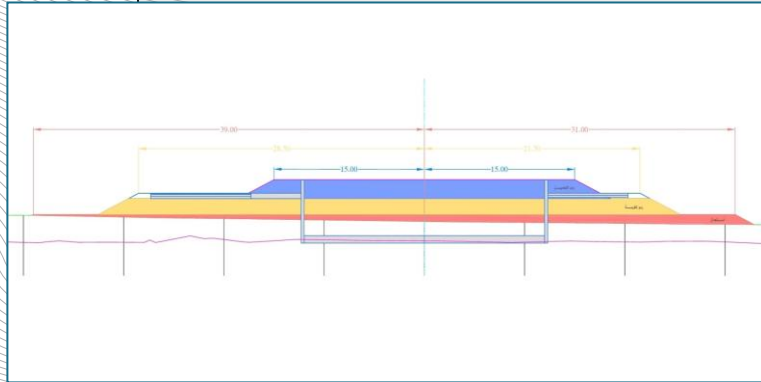
Project: Egypt New Delta Artificial River (Coastal Sector)

“I was Responsible of managing the technical office work during the construction of 44km long water way, in which I reviewed and modified designs, created detailed models and drafts.”



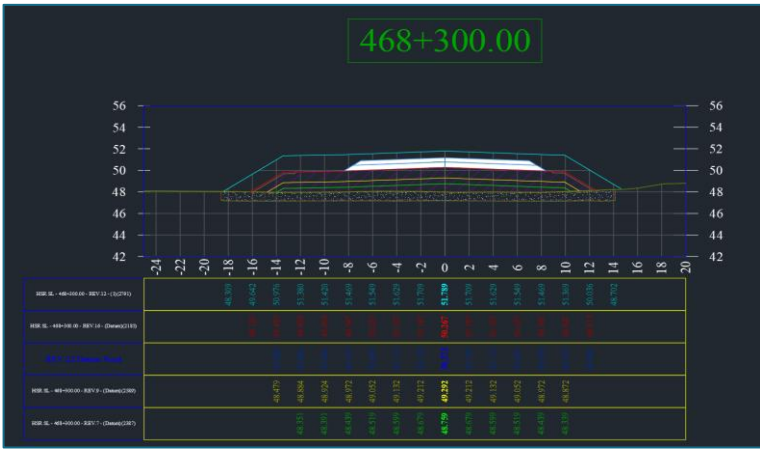
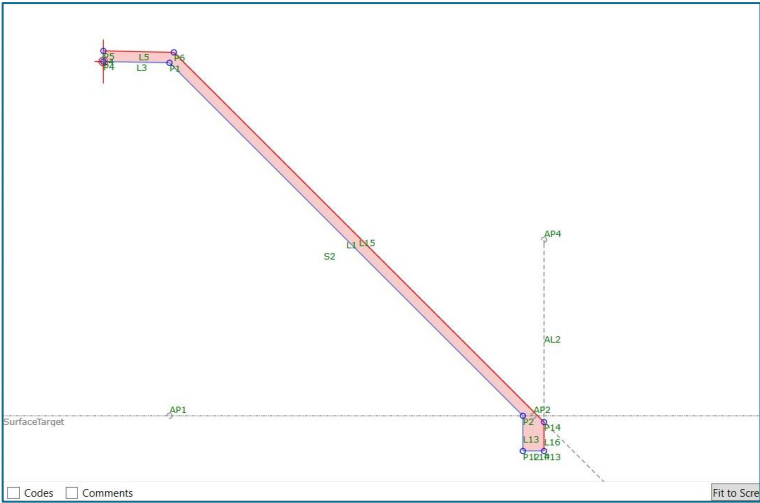
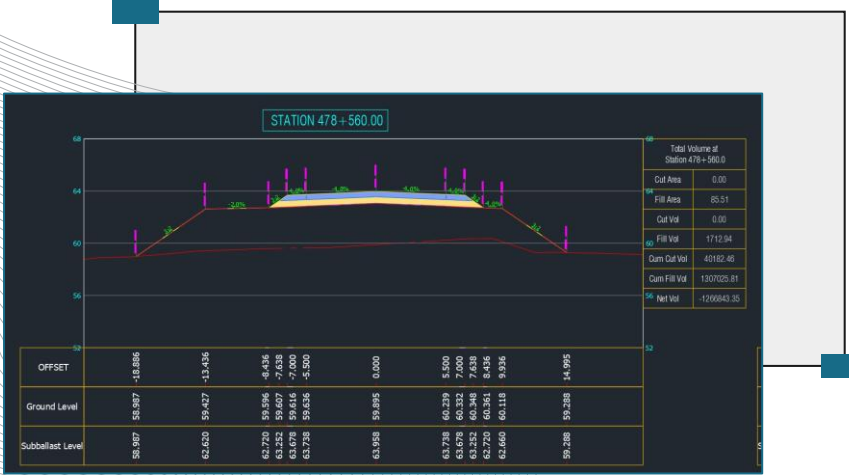
Project: Egypt New Delta Artificial River (Coastal Sector)

“Soil wasn’t suitable for construction so PVD and Preloading Geotechnical Improvement Method was needed, backfilling in water using 15 million m³ of sand to create a platform for PVD machines.



Project: High Speed Rail HSR (Electric Express Train EET)

“Created custom assemblies for slope protection. Created accurate shop drawings and sections, compared design changes for each drawing revision, performed quantity surveying for executed works.”



My skills and qualifications

CAD Drafting and Design

"Demonstrated proficiency in using industry-standard software, including AutoCAD Civil 3D, to create precise and comprehensive design plans for infrastructure projects."

Organization

"Proactive planning and prioritization enable me to efficiently meet project objectives and deadlines, ensuring successful and timely completion of diverse infrastructure projects."

Quantity Surveying

"Proven ability to manage project costs and resources effectively, preparing accurate bills of quantities (B.O.Q) and ensuring meticulous cost control throughout the project lifecycle."

Problem-Solving and Critical Thinking

"Handling complex design challenges and the ability to find practical solutions, which are vital in the field of civil engineering."

Planning and Management

"Track record of successfully overseeing and managing large-scale infrastructure projects, including leading drafting teams, with strong planning skills to ensure timely delivery within budget."

Communication and Collaboration

"Demonstrated skill in fostering productive relationships and coordinating seamlessly with cross-functional teams and stakeholders, showcasing strong communication and interpersonal abilities."

