

MUTASIM ELMAHI MANSOUR

Lead Civil/Structural Engineer | 20+ Years Experience | Quality Control | Project Management

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Summary

Lead Civil / Structural Engineer with +20 year of experience serving as technical authority across large -scale government, industrial, and infrastructure projects in Saudi Arabia. Proven track record in reviewing and approving contractor submittals and proposals, Signing-off technical decisions, leading multidisciplinary coordination, and resolving complex constructability challenges.

Key leadership and technical authority acted as structural technical authority for project execution and design review decisions-Reviewed contractor technical proposals and approved alternative engineering solutions - Signed-off structural decisions impacting safety, constructability and compliance -Led and supervised engineering teams and multidisciplinary coordination-Participate in client and contractor weekly technical meetings and risk decisions-Identified and stopped critical decisions errors before construction executions - Delivered value engineering initiatives reducing cost and improving constructability.

Projects

Custodian of the two Holy Mosques King Abdullah bin Abdulaziz Project (KAP5)

Riyadh, KSA

08/2023

Head of Structural Department

- Achieved project value by delivering compliant designs aligned with SBC & ACI and international standards
- The project consists of 388 sites distributed across the Kingdom of Saudi Arabia

It includes 88 different building prototypes with various functions and usages across approximately 6 floors

- Lead structural design review/ Civil works

Custodian of the two Holy Mosques King Abdullah bin Abdulaziz Project (KAP5)

Saudi Arabia

01/2015 - 07/2023

Senior Structural Engineer

- The project consists of 388 sites distributed across the Kingdom of Saudi Arabia.
- It includes 88 different building prototypes with various functions and usages across approximately 6 floors.
- Responsibilities included structural design review.

Connection of Sudair industrial city to Riyadh-Qassim Expressway (Bridges and roads, Also construction of Ready-Built Factory Project (30-Unit Cluster), – Sudair Industrial City, Saudi Arabia.

Sudair,
Saudi
Arabia

06/2013 - 12/2014

Senior Structural/Bridge Engineer

- Project involved the construction of a cluster of 30 ready-built factory units, designed to support industrial and manufacturing activities.
- Completed infrastructure project with 2 bridges and {100 SAR mln.} sewage channel, improving transport and sanitation.
- Improved operational efficiency by constructing a new building and executing infrastructure projects.

Projects

Hwota Bani Tamim-Harig Road- Agricultural Road Group "27"

Al Kharj, Saudi Arabia
01/2010 - 03/2013

Site Civil Engineer

The project consists of:

- Interchange.
- Tow Bridges.
- Box culverts.
- Pipe culverts.
- Highway & Agricultural roads.

Abha –Namas Doubling Road, Section (2) Aseer Province

Abha Aseer
03/2006 - 12/2009

Site Civil Engineer

- I contributed to the rehabilitation and widening of approximately 38 km of roadway, including major structural and earthwork components.
- My work supported the successful delivery of rehabilitation and doubling of 38 km of road.
- My work supported the successful delivery of construction of 6 bridges.
- Supported the successful delivery of implementation of 43 box and pipe culverts.
- Supported the successful delivery of execution of large-scale earthworks.

Burj Elfateh Tower

Khartoum, Sudan
2004 - 2026

Africoat-Sudan Port Authority

- **Site Civil Engineer**

Experience

Italconsult SpA

Riyadh, Saudi Arabia
08/2023 - Present

Head of Structural Department

- Lead and manage the structural engineering department overseeing multidisciplinary design and project supervision.
- Provide technical leadership in structural modeling using ETABS, SAP2000, and SAFE to resolve complex engineering challenges.
- Review and approve structural calculations and design deliverables, ensuring accuracy and alignment with approved designs.
- Lead value engineering initiatives to optimize structural systems, reducing costs while maintaining safety and performance.
- Mentor and guide engineering staff; conduct technical reviews and performance evaluations to uphold departmental standards.
- Support business development through technical proposals, design presentations, and project bidding activities.
- Take overall technical responsibility for structural safety, constructability, and engineering integrity of projects.

Experience

Italconsult SpA

Riyadh, Saudi Arabia

Senior Structural Engineer

01/2015 - 07/2023

- The project consists of 388 sites distributed across the Kingdom of Saudi Arabia, covering a wide geographical area and diverse site conditions.
- It includes 88 different building prototypes, comprising many buildings with various functions and usages.
- The buildings range in height from 1 to 4 and up to 6 floors, involving different structural systems, layouts, and functional requirements.
- Required coordination, adaptable design, and supervision to meet codes, quality, and construction standards across locations.
- Reviewed, checked, and approved structural design calculations and drawings in accordance with Saudi Building Code (SBC), ACI 318, tender documents, and project specifications.
- Reviewed and approved structural shop drawings to ensure alignment with approved designs, construction details, and site requirements.
- Verified quantities, conducted value engineering studies, and proposed optimized structural solutions to enhance cost efficiency and constructability while maintaining safety and quality.
- Collaborated with Architectural, Mechanical, Electrical teams to resolve design clashes; ensured integrated design delivery.
- Reviewed and approved method statements, evaluated construction procedures, and responded to RFIs related to civil and structural works.
- Prepared, reviewed, and issued technical reports, design clarifications, and formal responses for contractor submittals and approvals.
- Reviewed soil reports; recommended foundation systems, methods, and design considerations.
- Attended and actively participated in technical and coordination meetings with clients, consultants, and contractors, providing expert engineering input and decision-making support.
- Took technical decisions and corrective actions to resolve site-related challenges arising from site conditions, design changes, or construction constraints.
- Monitored site execution and quality control, ensuring compliance with approved drawings, specifications, and applicable standards.
- Acted as Head of Civil Department, managing civil and structural activities, leading the engineering team, coordinating resources, and ensuring timely and compliant project delivery.

Italconsult SpA

Sudair

Senior Bridge/ Structural Engineer

06/2013 - 12/2014

- Managed construction of 30 ready-built factory units and an administrative building with a total cost exceeding SAR 41,400,000, ensuring compliance with approved standards and specifications.
- Executed infrastructure works connecting Sudair Industrial City to Riyadh-Qassim corridor, including three bridge constructions for improved transportation links.
- Coordinated site activities and ensured safety adherence. Conducted regular inspections with stakeholders, contractors, agencies, and quality control authorities.
- Supervised construction work from site development to completion, ensuring architectural finishing, and effective labor management.
- Assured work quality by performing material quality tests and preparing method statements and checklists in line with project scope.
- Prepared detailed project schedules, monthly progress reports, and cost analysis, ensuring project timelines and budgets were met.
- Facilitated technical issue resolution and design implementation, enhancing construction efficiency and project outcomes.

Experience

Italconsult s.p.a

Saudi Arabia

Site Civil Engineer

01/2010 - 05/2013

- Assist to Resident Engineer for technical quarries, correspondence etc. for Howta -Hariq projects
- Supervising the construction of the structural works in accordance with the project design and specification
- Duties and responsibilities include report writing daily, weekly, monthly including (dashboard), KPI and QA/QC weekly reports with NCR (Non-Conformance Reports)
- Monitoring of quality control under the MOT specification and engineering standards, quantity and progress to ensure that contractor should terminate the work within stipulated contractual time period
- Checking contractor's submittals including shop drawings and method statements
- Verification of IPC at the end of the month
- Supervision checking and revision of structural, constructional drawings

Italconsult s.p.a

Saudi Arabia

Site Construction Engineer

03/2006 - 12/2010

- Supervise all Structure works @ site
- Checking of shop drawing & designs
- Checking quantities and control quality of contractor works

Africoat-Sudan Port Authority

Khartoum, Sudan

Construction Site Engineer

2004 - 2006

- Prepare daily reports for construction works to insure completion of work at time
- Develop bid package for subcontractor, procures subcontractor, material and services to meet with project requirements
- Prepare daily project submittals
- Maintains project RFI logs
- Prepare monthly payments
- Assist in the project control, survey and layout

Languages

Arabic Native ●●●●●

English Proficient ●●●●●

Skills

AutoCAD · Safe · Etabs · SAP2000 · Robot structural · Prokon · Civil 3D · Revit · MS Office Applications · SBC Codes · ACI-318 · AISC · MOT Specs

Education

Sudan University of Science and Technology

02/1999 - 10/2003

Bachelors of Civil Engineering

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