

ALY AHMED ALY AMIN

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SUMMARY

Accomplished Bridge Engineer with extensive experience in structural engineering and construction management. Proven track record in overseeing complex bridge projects, ensuring compliance with technical specifications and safety standards. Adept at coordinating multidisciplinary teams, negotiating contracts, and managing budgets to deliver cost-effective solutions. Skilled in Autodesk-CAD, Auto CAD Structure Detailing - ASD 15, Revit Structure, and MS Office. Strong communication skills and well-organised approach to project execution. Career goal includes contributing to innovative infrastructure projects that enhance community connectivity and safety.

EXPERIENCE

TRADING & DEVELOPMENT PARTNERSHIP

Riyadh, Saudi Arabia

Bridge Engineer

12/2019 to Current

- Inspect Site Conditions to Ensure Suitability for the Designed Permanent Works.
- Acting as the Main Technical Adviser on Construction Sites for Subcontractors, Crafts People and Operatives.
- Review Plans, Drawings and Quantities for Accuracy of Calculations.
- Give Practical advise on Constructional Matters.
- Inspecting Construction Works at Site.
- Maintain Records of Inspections, Work Executed.
- Ensuring that all Materials Used and Work Performed are as per Specifications.
- Inspect Construction, including Temporary, Works to ensure Compliance with Approved Methods and Contract Requirements.
- Assist with the Preparation of Proposals, Estimates, Budgets and Schedules.
- Keep up to Date with the Latest Developments and Technical Innovations in Structural Engineering.
- Communicate Effectively with Structural Engineering Team, Subcontractors, Supervisors, Project Stakeholders, Including the Customer.
- Coordination of Works between different Crafts, Subcontractors and Service Sections.
- Observe Site Safety Procedures.
- Assist in or Measure Work Done when Required.
- Assist with Preparation of Detailed Designs, Drawings, Specifications, Data, Calculations and Reports.
- Preparation of Shop Drawing and As Built Drawings.
- Assist with Inspection of Completed Works and Prepare Handover to Operating Authority.
- Collaborated with multidisciplinary teams to develop innovative solutions for complex engineering challenges in bridge design.
- Oversaw the budgeting and financial management of bridge construction projects, ensuring cost-effectiveness and timely completion.
- Negotiated contracts with suppliers and contractors, securing high-quality materials and services at competitive prices.
- Prepared and presented technical reports and proposals to clients, effectively communicating complex engineering concepts.
- Conducted risk assessments for bridge projects, developing mitigation strategies to address potential safety hazards.
- Organised maintenance and repair activities for civil structures.
- Facilitated professional development workshops for junior engineers, sharing knowledge and best practices in bridge engineering.
- Monitored construction sites to ensure adherence to architectural plans, safety protocols, and regulatory requirements.
- Managed detailed inspections and assessments of existing bridges, identifying critical repairs needed to maintain structural integrity.
- Spearheaded innovative research projects on new materials and technologies, contributing to advancements in the bridge engineering sector.

NATIONAL DIRECTION CONTRACTING

Dammam, Saudi Arabia

Construction Engineer

01/2018 to 08/2019

- Inspect Site Conditions to Ensure Suitability for the Designed Permanent Works.
- Review Plans, Drawings and Quantities for Accuracy of Calculations.
- Give Practical advise on Constructional Matters.
- Inspecting Construction Works at Site.
- Maintain Records of Inspections, Work Executed.
- Inspect Construction, including Temporary, Works to ensure Compliance with Approved Methods and Contract Requirements.
- Assist with the Preparation of Proposals, Estimates, Budgets and Schedules.
- Keep up to Date with the Latest Developments and Technical Innovations in Structural Engineering.
- Communicate Effectively with Structural Engineering Team, Sub-contractors, Supervisors, Project Stakeholders, Including the Customer.
- Coordination of Works between different Crafts, Subcontractors and Service Sections.
- Observe Site Safety Procedures.
- Assist with Preparation of Detailed Designs, Drawings, Specifications, Data, Calculations and Reports
- Assist in Preparation of 'As Built Drawings'.
- Assist with Inspection of Completed Works, Prepare Handover to Operating Authority.
- Worked effectively with QA/QC Engineers to develop solutions for construction non-conformance.
- Coordinated civil infrastructure design for road, waterways and housing development drainage systems.
- Conducted site evaluations, including soil testing and analysis, to inform project feasibility studies.
- Analysis survey reports, maps, and data to plan projects effectively, taking into consideration environmental impact and sustainability.
- Performed technical, quality, design and safety reviews for project assurance.
- Developed detailed project plans, incorporating timelines, resource allocation, and budget management for efficient project execution.
- Coordinated with contractors, architects, and consultants to streamline project delivery and achieve project objectives.
- Directed earthworks and site preparation activities, ensuring a solid foundation for construction projects.
- Oversaw and managed quality controls works, ensuring requirements were met and recorded in line with regulatory building standards.
- Conducted risk assessments to identify potential project hazards and implemented mitigation strategies to prevent issues.
- Managed project documentation, including technical drawings and specifications, ensuring accuracy and accessibility for all project members.
- Verified consistent delivery of high-quality work across structure construction.
- Conducted detailed site inspections to assess project feasibility and identify potential risks.
- Negotiated with suppliers and contractors to secure quality materials and services at competitive prices.
- Reviewed and approved contractor submissions, ensuring alignment with project specifications and standards.

KHALIFA GROUP

6 October City, Egypt

Construction Engineer

07/2017 to 12/2017

- Inspect Site Conditions to Ensure Suitability for the Designed Permanent Works.
- Review Plans, Drawings and Quantities for Accuracy of Calculations.
- Give Practical advise on Constructional Matters.
- Inspecting Construction Works at Site.
- Maintain Records of Inspections, Work Executed.
- Ensuring that all Materials Used and Work Performed are as per Specifications.
- Inspect Construction, including Temporary, Works to ensure Compliance with Approved Methods and Contract Requirements.
- Assist with the Preparation of Proposals, Estimates, Budgets and Schedules.
- Keep up to Date with the Latest Developments and Technical Innovations in Structural Engineering.
- Communicate Effectively with Structural Engineering Team, Subcontractors, Supervisors, Project Stakeholders, Including the Customer.
- Coordination of Works between different Crafts, Subcontractors and Service Sections.
- Observe Site Safety Procedures.
- Assist in or Measure Work Done when Required.
- Assist with Preparation of Detailed Designs, Drawings, Specifications, Data, Calculations and Reports.

- Monitored construction activities daily, adjusting schedules and strategies in response to unforeseen challenges or opportunities.
- Produced reports and statements detailing project completion plans and areas potentially affected by activities.

SKILLS

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| <ul style="list-style-type: none"> • Autodesk-CAD • Auto CAD Structure Detailing - ASD 15 • Revit Structure • MS Office • Operating system windows • Cost calculations • Active listening • Well-organised | <ul style="list-style-type: none"> • Communication skills • Building and construction processes • Cost and material estimations • Material testing • Construction site surveying • Emotional support and companionship • Administrative support • Positive attitude |
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CUSTOM SECTION

Training 1:

- Duration: From March 2017 Till April 2017.
- Company: Bena Academy.
- Position: Trainee.
- Duties:
 - Training on Primavera Program and Project Management.

Training 2:

- Duration: From July 2016 till Aug 2016.
- Company: Arab Contractor.
- Project: Wastewater Treatment Plant Beni suef, Egypt.
- Position: Trained Engineer.

Training 3:

- Duration: From August 2016 Till October 2016.
- Company: Nawara Alaa Ezaat.
- Project: Villas in fifth settlement project.
- Position: Trained Engineer.
- Duties:
 - Checking Setting out, leveling and surveying the site.
 - Checking technical designs and drawings to ensure that they are followed correctly.
 - Check all the shop drawings.

EDUCATION

BACHELOR'S OF CIVIL ENGINEERING: CIVIL ENGINEERING
Faculty of Engineering El-Shorouk University, Egypt.

05/2017

- Subjects Studied: (Structural Analysis, Structural Design "Concrete & Steel", Highway Engineering, Sanitary Engineering, Infrastructure, Water Structures, Material, Surveying and Computer Studies.)
- Graduation Project: Projects Management (Madinaty Section B-3) with Grade "Very Good".
- GPA: Good//.

CERTIFICATIONS

- **PMI - PMP®** Certified (PMP Number:3983995).
- **PMI - RMP®** Certified (RMP Number:4027341).
- **PMI – Generative AI®** Certified (4 Certificates AI).
- **Six Sigma Yellow Belt** (Certificate Number:884588).
- Certificate of attending a training course PMP at Technical and Vocational Training Corporation (Certificate Number:96647847).
- Preparation Course for PMP at YALLA-PMP (Certificate Number:0018465).
- Preparation Course for RMP at PM-TRICKS (Certificate Number:09708).
- Certificate of Appreciation Workshop at (Roads General Authority) IRF Global at the (Smart Roads & Net Zero Workshops), (Technological Innovations and AI in Road Safety Workshops), (Road Safety Strategies Workshops), (Towards Sustainable Roads & Transport Workshops).

Any of above certificates will be provided when request.

KEY QUALIFICATIONS

- More than 7 years' Experience in the Field - Site Structural Engineer and Technical Office Engineer (Bridges, Culverts, Buildings, Factories, Steel works, and Other Civil Works).
- Design All types of **Culverts Box** according to **MOT**.
- Design All types of **Retaining Walls** according to **MOT**.
- Proficiency in utilizing AutoCAD and other PC Software Packages Typically Associated with Engineering.
- **PMP® - PMI** Certified.
- **RMP® - PMI** Certified.
- **PMI – Generative AI®** Certified.
- **Six Sigma Yellow Belt** Certificate.
- Saudi Council of Engineers Membership.

PERSONAL INFORMATION

- Date of Birth: 01/28/94
- Nationality: Egyptian
- Marital Status: Married
- Driving Licence: Valid
- Languages: Arabic (Perfect) Mother / English (Excellent)

WEBSITES, PORTFOLIOS AND PROFILES

<https://www.linkedin.com/in/aly-amin-565350111>

PROJECTS

- Completion of TAIF/SAIL KEBEER ROAD, Taif, Saudi Arabia, Trading and Development Partnership, MINISTRY OF TRANSPORT, EURO GROUP, A Road with Length of 18 km, including 2 Bridges, 25 Culvert Boxes, Slop Protection, V-Ditches and Barriers, 96 million (SAR).
- University City of King Khalid University in the branch with the intersections in Asir Region, Asir, Saudi Arabia, Trading and Development Partnership, MINISTRY OF TRANSPORT, ARAB CONSULTING ENGINEERS-MOHARRAM BAKHOUM, A Road with Length of 14 km, including 1 Bridges, 13 Culvert Boxes, Slop Protection, V-Ditches, Manholes and Barriers, 90 million (SAR).
- Connect The Train Station with The Intersection with Al-Qassim, Al-Qassim, Saudi Arabia, Trading and Development Partnership, MINISTRY OF TRANSPORT, SAUDI CONSULTING SERVES, 5 Roads with 4 Ramps, including 1 Bridges, 5 Culvert Boxes, Slop Protection, Manholes and Barriers with some Shoring and Dewatering Works, 83 million (SAR).
- SAAD AL-ESSA INDUSTRIES FACTORY, Dammam, Saudi Arabia, National Direction Contracting, SAAD AL-ESSA, AI FAREED CONSULTING ENGINEERING, Factory Composed 5 Buildings and 3 Open Storage Areas, A Train Track and Gantry Crane Connecting them (Civil, Architectural, HVAC, Mechanical, Plumbing and Landscaping Works) Total Build up Area = 46,000 m², 45 million (SAR).
- Social housing of 6 October city, 6 October City, Egypt, Khalifa group, MINISTRY OF HOUSING AND CONSTRUCTION, MINISTRY OF HOUSING AND CONSTRUCTION, composed 53 Buildings including (Civil, Architectural, HVAC, Mechanical, Plumbing and Landscaping Works) and Infrastructure Works, 350 million (Pound).