

Ahmed Abdelgafar Hassan Bakhit

Civil Engineer - Roads, Bridges & Infrastructure - Project Engineer - Planning Engineer

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Professional Summary

A civil engineer with more than 7 years of experience in road, bridge, and infrastructure projects across different regions in the Kingdom of Saudi Arabia. Fully proficient in the standards of the Ministry of Transport and Logistics Services (MOTLS) for roads and bridges, with a strong ability to apply engineering specifications across all construction and maintenance stages. Experienced in QA/QC, field and laboratory testing, resource management, contractor supervision, coordination with stakeholders, and ensuring compliance with budgets, schedules, and HSE requirements. Possessing practical experience in various civil engineering disciplines related to my field, including roads and infrastructure, structural engineering, soil mechanics and foundations, materials engineering, structural finishing works, and steel structures, in addition to civil works related to drainage and irrigation systems. Registered member of the Saudi Council of Engineers (SCE).

Core Skills

Road and highway construction; Bridge construction and reinforced concrete works; Infrastructure networks and culverts; QA/QC - field and laboratory testing; Earthworks (Cut & Fill) and Subgrade / Subbase / Asphalt layers; Slope protection and embankment concrete works; Steel structures and structural engineering; Project coordination and field supervision; Technical reporting and quantity calculations; Maximo EAM - Asset management - KPI tracking - Warehouse management; Monitoring field works and ensuring compliance with drawings and specifications; Supervising work progress and ensuring alignment with the schedule; Coordinating with contractors to resolve issues and organize workflow; Implementing QA/QC procedures and verifying material and work quality; Preparing daily progress reports and recorded issues; Monitoring site compliance with occupational safety requirements; Following up on material and equipment availability to ensure work continuity.

Professional Experience

Project Engineer - Eid Daheem Al-Hamoud & Partners, Saudi Arabia (Dec 2020 - Present)

Tabuk / Al-Qalibah / Al-Jawf Bridge Interchange: Executed all bridge works: foundations, reinforced concrete,

columns, supports, beams, slabs, and related structures; Executed road construction: excavation, backfilling, grading, soil and base layers, and asphalt paving with quality monitoring; Ensured full compliance with MOTLS standards for all structural specifications and field/lab tests; Resolved geometric connections between the new interchange and existing roads; Executed culverts, drainage channels, slope protection, and concrete works for embankments; Installed New Jersey barriers, safety elements, signboards, and road markings.

Surface Intersections Improvement - Riyadh Region: Comprehensive engineering improvement of multi-lane

intersections to enhance traffic flow; Executed civil works: curbstones, islands, foundations, slopes, and walkways; Executed road layers and improved horizontal/vertical alignments and tie-ins; Installed signs, markings, reflectors, and safety systems; Achieved integration with existing networks and utilities.

Performance-Based Road Maintenance - Madinah / Badr / Yanbu / Umluj (Contract 403): Conducted

comprehensive inspection of roads and assets and identified defects; Implemented asphalt maintenance and repaired cracks, potholes, and settlements; Maintained culverts, cleaned channels, and improved water flow; Used IBM Maximo to register assets, work orders, and preventive maintenance; Prepared operational and emergency reports related to rain and flooding; Ensured compliance with MOTLS, HSE, and quality requirements; Tracked and monitored work orders daily, followed up on Work Order statuses, ensured task completion according to priorities, and accurately closed completed jobs within the system; Executed Shotcrete works for mountains and high slopes to stabilize soil, prevent rockfalls, and enhance road safety within the project limits; Full responsibility for managing and operating IBM Maximo EAM by creating work orders, scheduling preventive maintenance, following up on routine maintenance for bridges, culverts, and roads, documenting field inspections, approving reports, and monitoring and analyzing performance indicators to meet operational targets and owner requirements.

Project Engineer - Al-Ittihad Al-Awwal Holding, Riyadh (Aug 2020 - Dec 2020)

National Health Laboratory - Structural and Civil Works: Supervised structural works: foundations, columns,

slabs, and coordinated with mechanical, electrical, and architectural works; Ensured accurate levels, quality compliance, and specification adherence.

Smart Parking Structure Behind Al-Anoud Tower - Steel Structure Project: Managed installation of steel

elements precisely and according to safety standards; Reviewed shop drawings, materials, and QA/QC requirements; Coordinated with contractors and suppliers and managed approvals.

Site Engineer - Raed Ahmed Abdulmajid Co., Makkah (Nov 2019 - Aug 2020)

Mosque Construction Projects: Supervised structural works: foundations, reinforced concrete, columns, walls,

slabs, and associated civil works; Followed up on finishing works per structural and architectural specifications.

Birr Al-Walidayn Mosque & Residential Complex: Managed integrated civil and architectural works; Prepared

daily reports, inspection requests, and material requests; Followed up labor, equipment, and material flow.

Professional Achievements

Road Projects: Executed over 50 km of major and secondary roads across multiple projects in various regions; Supervised construction of road layers (Subgrade - Subbase - Base - Asphalt) with total quantities exceeding 800,000 m³; Improved traffic engineering and redesigned critical intersections, enhancing traffic safety by 25%; Repaired settlements, cracks, and damages across more than 120 locations; Improved pavement quality and reduced QA/QC rejection rates to the minimum; Full commitment to all technical specifications and standards approved by project owners and MOTLS.

Bridge and Culvert Projects: Supervised the construction of a 250-meter bridge including foundations, columns, beams, slabs, and connecting roads; Executed over 30 box and pipe culverts; Monitored structural quality for bridges and culverts in compliance with MOTLS and AASHTO standards; Applied slope protection solutions over 2.5 km; Installed New Jersey barriers exceeding 20 km.

Performance-Based Maintenance: Inspected and documented over 1800 km of roadway networks; Recorded

and processed over 4,500 maintenance observations using IBM Maximo EAM; Improved emergency response times to less than 24 hours; Reduced user complaints by 40%; Prepared monthly and quarterly reports including KPIs and asset readiness.

Project Management: Managed works with total value exceeding 250 million SAR; Increased field productivity by 60%; Applied risk management plans; Approved more than 500 Inspection Requests and Material Requests; Achieved effective coordination between consultant, contractor, and government entities.

Quality & Safety: Achieved QA/QC performance exceeding 85%; Conducted more than 30 HSE awareness sessions; Implemented safety procedures that significantly reduced incidents.

Education: Bachelor of Civil Engineering (Honors) - University of Science and Technology - Sudan - 2018

Training Courses: Autodesk Civil 3D 2024; SewerGEMS - Stormwater Network Design; Water Supply

Network Design; Road Construction; Infrastructure Network Drawings

Technical Skills: AutoCAD - Civil 3D; Microsoft Excel - Word - PowerPoint; Maximo EAM

Languages: Arabic - Native