

# KHALID ALAA EL-DEIN MOHAMMAD

---

Lead Civil Structural Site Engineer

El Sheikh Zayed City, Giza, Egypt

khalidaladin@hotmail.com | 00201003871435 / 00201285294547

## PROFESSIONAL SUMMARY

Lead Civil and Structural Site Engineer with 13+ years of experience managing and executing complex infrastructure projects, including high-speed rail and metro systems. Proven expertise in site supervision, QA/QC, and project coordination, combined with hands-on experience in executing reinforced concrete structures, precast segments, deep well dewatering, earthworks, finishing works, and installation of substations, water tanks, and pedestrian bridges. Skilled at reviewing shop drawings, material submittals, and method statements, resolving technical challenges on-site, and delivering projects on time, within quality standards, and according to design specifications and safety requirements.

## PROFESSIONAL EXPERIENCE

**Lead Civil / Structural Site Engineer — SYSTRA**

**Egypt | Feb 2023 – Present**

**Project: Electric Express Train – High-Speed Railway (Al Amria & Al Noubareya Stations)**

- Lead site engineer responsible for all civil and structural activities across both stations, including deep well dewatering, soil replacement, backfilling, earthworks, raft foundations, and structural works for main and auxiliary buildings.
- Supervised construction of key facilities: platforms, utility tunnels, substations, water tanks, pedestrian bridges, boundary fencing, ensuring compliance with IFC drawings, project specifications, and safety procedures.
- Directed daily site execution, coordination, and progress follow-up with contractors, client representatives, and multidisciplinary teams to resolve technical issues and prevent delays.
- Reviewed and approved shop drawings, material submittals, method statements, and IRs to ensure technical accuracy and adherence to project standards.
- Responded to RFIs and RFPs, providing clear technical and contractual clarifications to support smooth project execution.
- Issued QNVs and SORs to enforce corrective actions, maintain quality compliance, and monitor contractor performance.
- Participated in weekly technical and progress meetings and prepared detailed Minutes of Meeting (MOM) for project documentation.
- Maintained complete site records, including inspection logs, correspondence, NCR/QNV follow-up, and daily site reports.
- Prepared daily, weekly, and monthly progress reports along with visual presentations for internal management and external stakeholders.
- Supported the Resident Engineer in technical reviews, contractor monitoring, and handover documentation preparation.

## **Senior Site Engineer - VINCI Construction**

**Egypt | Apr 2018 – Jan 2023**

### **Project: Greater Cairo Metro – Line 3, Phase 3 (Precast Operations)**

- Led production and quality control for 1,722 precast box-shaped segments for the elevated viaduct using match-cast technology, ensuring structural accuracy and installation readiness.
- Oversaw fabrication of key precast components, including:
  - 817 closure beams
  - 884 under-platform walls
  - 469 walkway units
  - 61 stair units
  - 73 counterweights
  - 141 Berlin walls
  - 250 site curbs
- Supervised all casting, curing, inspection, and storage operations, directing teams of engineers, technicians, and skilled labor to ensure compliance with drawings and specifications.
- Planned and controlled detailed daily and weekly production schedules, improving workflow efficiency and meeting tight project deadlines.
- Coordinated closely with design, site installation, and construction teams to ensure dimensional compatibility and smooth erection at site.
- Conducted rigorous dimensional checks and quality inspections to align with project specifications and international precast standards.
- Resolved on-site technical issues by liaising directly with clients, consultants, and subcontractors, ensuring timely execution and uninterrupted production.

## **Technical Office / Quantity Survey Engineer (Part-Time) - Delta Contracting**

**Egypt | Dec 2017 – Mar 2018**

- Supported civil works for the Ismailia Tunnel Project, focusing on tunnel entrances and toll station structures.
- Performed accurate quantity take-offs, material estimations, and measurement sheets.
- Assisted in preparing progress invoices and documentation for contractor/client approvals.

## **Civil Engineer - Ministry of Water Resources and Irrigation**

**Egypt | Jul 2014 – Mar 2018**

- Supervised construction of a reinforced concrete bridge across the Port Said Irrigation Canal.
- Managed installation of steel sheet pile walls along the Suez Irrigation Canal to support berms and waterway protection works.
- Oversaw construction of 25 reinforced concrete ground tanks (each 7,000 m<sup>3</sup>) in Al Qantara Sharq for large-scale irrigation water storage and distribution.
- Supervised structural repair works for existing concrete structures.
- Coordinated installation of irrigation aqueduct pipelines.

## **Site Engineer - Delta Contracting**

**Egypt | Dec 2013 – Jun 2014**

- Managed finishing works for villas and office buildings, ensuring quality execution and on-time delivery.
- Coordinated daily activities with subcontractors and suppliers, resolving site issues to maintain workflow efficiency.
- Performed site inspections, monitored workmanship quality.

## **Site Engineer - Construction Office for Contracting**

**Egypt | Jan 2013 – Nov 2013**

- Oversaw construction of residential buildings, mosques, and office facilities in Ismailia City, ensuring adherence to project requirements and safety standards.
- Supervised earthworks, foundation activities, and reinforced concrete works, ensuring compliance with drawings, specifications, and quality standards.

## **EDUCATION**

Bachelor of Science in Civil Engineering

Port Said University, Egypt | Graduated: 2012

## **KEY SKILLS**

### **Technical Expertise:**

- Civil & Structural Execution: foundations, raft slabs, reinforced concrete works, earthworks
- Precast Concrete: production, match-cast segments, walls, beams, stair units, walkways
- Deep Well Dewatering, Soil Replacement & Backfilling
- Finishing Works
- Substations, Water Tanks, Pedestrian Bridges, Fencing & Landscaping
- Shop Drawing, Material Submittal & Method Statement Review
- RFIs, RFPs, QNVs, SORs, MOMs

### **Project & Site Management:**

- Construction Supervision across complex infrastructure projects (metro, railway, tanks)
- Scheduling, Resource Planning & Work Allocation
- Progress Tracking, Reporting & Stakeholder Communication
- QA/QC and HSE Compliance Enforcement
- Coordination with Multidisciplinary Teams, Contractors & Clients
- Issue Resolution & On-Site Problem Solving

### **Software:**

- AutoCAD & Technical Drafting
- Microsoft Office (Word, Excel, PowerPoint)

## **PERSONAL SKILLS**

- Leadership & Team Management
- Detail-Oriented & Quality Focused
- Adaptability & Multitasking
- Clear Written & Verbal Communication
- Analytical Thinking & Problem Solving

## **LANGUAGES**

**Arabic:** Native

**English:** Proficient