

ZEIN MOHAMED ABDELRAHMAN

SENIOR CIVIL ESTIMATION ENGINEER

EPC Tendering | Preconstruction | Power & Infrastructure

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PROFESSIONAL SUMMARY

Senior Civil Estimation Engineer with 6+ years of civil and structural engineering experience across power, data centers, LNG, industrial, infrastructure and building projects. Experienced in leading civil and architectural tender scopes, quantity takeoffs, BOQs, cost estimates, RFQs and supplier/subcontractor evaluations. Structural design and BIM expertise supports constructability assessment, multidisciplinary coordination, value engineering and technically sound tender decisions.

PROFESSIONAL EXPERIENCE

Senior Civil Estimation Engineer | Nesma Infrastructure & Technology (NIT)

January 2025 – Present | Cairo, Egypt

- Lead assigned civil and architectural tender packages from tender document review and scope definition through quantity takeoff, BOQ development, cost build-up, internal review, and final estimate submission.
- Prepare civil and architectural estimates for power infrastructure tenders, including 380/230/132/115 kV substations, overhead transmission lines, underground cable systems, and associated buildings and infrastructure works.
- Build and validate cost rates using supplier and subcontractor quotations, historical pricing, and previous-project benchmarks; issue RFQs, evaluate technical and commercial offers, develop comparison sheets, and support negotiations.
- Identify scope gaps, drawing and specification discrepancies, multidisciplinary interfaces, and tender risks, and translate them into clarifications, qualifications, documented assumptions, and pricing allowances.
- Apply engineering judgment to assess site constraints, constructability, and preliminary civil/structural requirements, and evaluate alternative materials, structural concepts, and construction methods for value engineering and cost optimization.
- Extract and validate quantities from Revit and vendor models, reconcile model quantities against tender documents and BOQs, and coordinate civil interfaces with electrical and other disciplines before estimate finalization.
- Maintain historical cost databases and project benchmarks, capture tender and post-award feedback, and incorporate lessons learned and BOQ changes to improve future estimate accuracy, consistency, and traceability.

Selected Projects:

380 kV Substations: Bisha, Rumah, Jafurah, Masturah, and Nifi.

230 kV Substations: Jubail North, Jubail Southeast.

Transmission: NEOM PSSA OHTL, Jubail Intertie.

HVDC: Nariyah–Zulfi HVDC Transmission Link.

Synchronous Condensers: Bisha, Sadawi, Haden, and Al Leeth.

Data Center: King Salman International Airport Data Center.

Structural Design Engineer | Consolidated Contractors International Company (CCC)

June 2021 – January 2025 | Cairo, Egypt

- Designed and reviewed reinforced-concrete and structural-steel systems and prepared engineering calculations in accordance with applicable international and regional codes.
- Prepared IFC/design documentation and structural shop drawings for construction.
- Developed and checked Revit models, reviewed clashes and interfaces in Navisworks, and coordinated model information with 2D drawings and other disciplines.
- Reviewed vendor and shop drawings and provided technical and construction support to resolve design issues while maintaining design intent and quality requirements.
- Performed structural assessments and specialized analysis, including time-history analysis for blast-related design requirements on complex facilities.
- Developed engineering calculation tools and automated spreadsheet workflows that shortened repetitive calculations and improved the consistency of design output.

Selected Projects:

LNG: North Field South Onshore LNG Facilities; North Field Expansion Onshore Facilities.

Industrial: QAFCO 7.

Hospitality: Four Seasons Hotel and Resorts – New Capital.

Entertainment: EXIT 15 Development / SEVEN.

Healthcare: Safa Medical Park.

Commercial: Tahrir Complex; The Ark Business District.

Infrastructure: Detour Tunnel – King Salman Park; New Bugesera International Airport (NBIA).

EDUCATION

M.Sc. Construction Management — In Progress | Ain Shams University

Relevant study in construction management, tendering, estimation, and cost management.

B.Sc. Structural Engineering | Ain Shams University | 2020

Grade: Very Good | Graduation Project: Steel Structures Design — Excellent

SOFTWARE & TECHNICAL TOOLS

Microsoft Excel | Revit | Navisworks | AutoCAD | AutoCAD Structural Detailing | ETABS | SAFE | SAP2000 | STAAD.Pro | C#

LANGUAGES

Arabic — Native | English — Professional Working Proficiency

ADDITIONAL EXPERIENCE & ACTIVITIES

Operations & Control Manager | Ihyaa Academy

December 2022 – Present | Volunteering

- Manage budgeting and resource allocation, coordinate logistics and vendors, oversee financial reporting, and improve operational processes for educational programs.

Judo: Former competitive judo athlete; Arab Championship gold medalist, African Championship bronze medalist, and former El Zohour Club team captain.