

OMAR Y.A. KHAMAYSEH

Senior Structural Engineer

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PROFESSIONAL SUMMARY

Structural Engineer with 8+ years of experience in reinforced concrete (RC) design, seismic design, foundation and geotechnical engineering, post-tensioned (PT) slab execution, ground improvement, and construction supervision. Experience includes retaining structures 6–18 m high for deep excavations, PT execution and shop drawings for 30+ projects, and structural design contribution to a 150,000 m² industrial facility. Skilled in structural analysis, structural assessment, engineering consultancy for real-estate projects, QA/QC, and technical reporting in English, Arabic, and Hebrew. Proficient in ETABS, SAFE, SAP2000, Revit, and AutoCAD, applying ACI and IBC requirements together with local regulations.

CORE COMPETENCIES

Reinforced Concrete Design | Seismic Design | Structural Analysis | Post-Tensioned Slabs | Foundation Design | Soil Investigation & Ground Improvement | Retaining Walls & Deep Excavations | Structural Assessment & Rehabilitation | Construction Supervision | QA/QC | Construction Materials Testing | Shop Drawings | Waterproofing Design | Protected Spaces & Shelters | Technical Reports | Design Coordination | Branch Management

PROFESSIONAL EXPERIENCE

Civil & Structural Engineer | Center for Engineering & Creativity (C.E.C.)

Jerusalem, Palestine | Aug 2023 – Present

- Perform structural analysis, load calculations, and design of reinforced concrete structures in accordance with applicable codes and regulatory requirements.
- Prepare and review structural drawings, shop drawings, technical specifications, and engineering reports.
- Conduct design reviews, site inspections, and technical assessments of structural works.
- Design and review protected spaces and shelters.
- Design and review waterproofing systems for various building projects.

Engineering Manager – Ramallah Branch | International Center for Geotechnical and Engineering Studies (ICGES)

Ramallah, Palestine | May 2022 – Jun 2023

- **Managed the Ramallah branch**, overseeing engineering operations, staff, and client relations.
- Led engineering consultancy services for real-estate development projects.
- Directed soil investigations and construction-materials testing studies.
- Delivered advanced ground-improvement solutions, including soil grouting (injection).
- Managed QA/QC activities, design coordination, and construction supervision across multiple projects.

Civil & Structural Engineer | International Center for Geotechnical and Engineering Studies (ICGES)

Hebron and Bethlehem, Palestine | Jul 2017 – Jan 2018; Oct 2018 – May 2022

- **Designed and implemented retaining structures 6–18 m high** for deep excavations.
- **Designed the structural system of a 150,000 m² industrial facility.**
- Performed foundation design and geotechnical assessments, including soil investigations and soil mechanics analysis.
- Conducted laboratory and field testing of soil, concrete, aggregates, and other construction materials, and supervised construction activities.
- Performed structural health monitoring and condition assessment of existing structures.
- Worked on residential buildings, schools, industrial facilities, and wastewater infrastructure projects.

Structural Engineer (Part-Time) | Free Span Company

Hebron, Palestine | Oct 2018 – May 2022

- Executed post-tensioning (PT) systems on 30+ projects, covering construction management and site supervision.
- Prepared PT shop drawings (execution drawings) for construction.
- Key projects: Hebron Mall, Ramallah City Center, Hebron Courts Complex, Freer Schools, Al Barq Company, and Alawawdah Diwan.
- Held part-time (30%) alongside the full-time role at ICGES.

Civil Engineer | Hijjawi Construction Laboratory (HCL)

Nablus, Palestine | Jan 2018 – Oct 2018

- Conducted construction-materials testing and evaluated existing buildings.
- Prepared concrete and asphalt mix designs.
- Supported building, industrial, and road projects, including the USAID-funded Al-Bathan Road.

EDUCATION

Master’s Degree in Structural and Earthquake Engineering

An-Najah National University, Nablus, Palestine | 2017 – 2019

Bachelor’s Degree in Building Engineering

Palestine Polytechnic University, Hebron, Palestine | 2013 – 2017

TECHNICAL SKILLS

- **Structural Analysis & Design:** ETABS, SAP2000, SAFE, PROKON, ATIR, IDEA StatiCa
- **Geotechnical Analysis & Design:** DeepEX, GEO5
- **BIM & Drafting:** Revit, Tekla Structures, AutoCAD
- **Codes & Standards:** ACI, IBC, local regulatory requirements

CERTIFICATIONS

- Analysis and Design of Steel Structures – Palestine Engineers Association, 2025
- Revit – Palestine Engineers Association, 2025
- Residential Secure Spaces Design – C.E.C., 2024
- ETABS – Palestine Engineers Association, 2017

PUBLICATIONS

- *Analysis of Excavation Failures in a Car Showroom Project in Palestine* – Co-author. 8th International Conference on Civil Engineering, Jordan, 2020.

PROFESSIONAL MEMBERSHIPS

- Palestine Engineers Association
- Jordan Engineers Association
- American Society of Civil Engineers (ASCE)

LANGUAGES

Arabic (Native) | English (Professional Working Proficiency) | Hebrew (Advanced, C1)