

ZESHAN ZAFAR YOUSAFZAI

Civil / Structural Engineer | Project / Site Manager | Quantity Surveyor | QA/QC Specialist

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🌐 NEOM Sharma, Tabuk, Saudi Arabia |  [Zeshan Zafar Yousafzai](#)

PROFESSIONAL SUMMARY:

Globally **experienced** with **11+** years delivering **high-rise, infrastructure, and industrial projects** across **Pakistan, the Middle East, and Southeast Asia**. Specialized in **reinforced concrete and steel structures**, with expertise in **ACI, ASCE, Eurocode, SBC, and GOST** standards. Proven leadership in managing **full project lifecycles** and **multidisciplinary teams**, ensuring **quality, compliance, and safety**.

Certified **Lean Six Sigma Yellow Belt**, focused on **process optimization** and **risk mitigation**. Active member of the **American Society of Civil Engineers (ASCE)**, affiliated with the **Structural Engineering Institute (SEI)**, and member of the **Project Management Institute (PMI)**—reflecting a commitment to **global standards, innovation, and continuous professional development**.

Proficient in **ETABS, SAP2000, SAFE, TEKLA Structures, AutoCAD, RFEM, Revit, STAAD Pro, and Primavera P6**. Known for **precision engineering, strategic problem-solving, and cross-cultural collaboration** that consistently drives **technical excellence and client satisfaction**.

CORE COMPETENCIES:

- **Structural Design & Advanced Analysis:** Leverages extensive expertise in structural systems to design and analyze complex reinforced concrete and steel structures. Proficient in *ETABS, SAP2000, SAFE, TEKLA, AutoCAD, and Dlubal RFEM 6* for linear and nonlinear simulations, performance-based seismic assessments, and soil-structure interaction modeling. Applies codes (*ACI, ASCE, Eurocode, BS GOST and Other Local International Codes*) to deliver cost-efficient, high-integrity engineering solutions.
- **Project Leadership & Delivery:** Demonstrated success in managing multidisciplinary project teams across planning, coordination, and execution stages. Skilled in aligning technical goals with stakeholder expectations, optimizing schedules and resources using *Primavera P6*, and ensuring on-time, within-budget delivery of large-scale infrastructure and vertical construction projects.
- **Quality Management & Compliance Oversight:** Applies rigorous QA/QC frameworks to monitor construction execution, design adherence, and material compliance. Leads audits, inspection protocols, and quality enhancement initiatives aligned with international best practices and client standards.
- **Technical Drafting & Visual Communication:** Produces precise 2D technical drawings and 3D models for construction detailing, shop drawings, and BIM coordination. Utilizes *TEKLA Structures, AutoCAD, and SolidWorks* to visualize complex geometries, clarify intent, and streamline interdisciplinary collaboration.
- **As-Built Engineering & Revision Control:** project close-out phases. Ensures conformance to site conditions, design intent, and regulatory requirements highly skilled in delivering accurate as-built documentation and engineering adjustments during through iterative revision workflows.
- **Cross-Cultural Communication & Leadership:** Fluent in English, Urdu, Pashto, Punjabi, Bahasa Malay, and Indonesian Java. Builds rapport across geographically diverse teams, leading with cultural intelligence, empathy, and diplomacy in multi-national work environments.
- **Interpersonal Effectiveness & Collaborative Mindset:** Respected for emotional intelligence, adaptability, and team synergy. Fosters a positive, accountable work culture through transparent communication, active listening, and mentorship.

PROFESSIONAL EXPERIENCE:

1. Lead Civil/Structural Engineer

Saudi Arabia Trading and Construction Co. (SATCO) — EPC for NEOM

FCO Project, NRC-9 Finishing Phase

March 2025 – Present

- Directed the revision and finalization of as-built designs for NRC-9, ensuring accuracy, clause-level compliance, and alignment with NEOM project standards.
- Reviewed technical RFQs for tenders pursued by the company, assessing scope, specifications, and feasibility across civil and structural disciplines.
- Coordinated with multidisciplinary teams to resolve design challenges and implement modifications for efficient project delivery.
- Conducted structural integrity verification using SAP2000 and ETABS, ensuring outputs met regulatory and safety requirements.
- Prepared detailed technical reports and ensured final design documentation was complete, compliant, and audit-ready.

2. Manager – Structural Design

Alsalmiya Steel Co., Riyadh, Kingdom of Saudi Arabia

Feb 2025 – Mar 2025

- Designed seismic- and wind-resistant steel platforms per ASCE 7-16 and SBC 301.
- Mentored junior engineers and delivered key structures for Riyadh2 Industrial City and STC Centre 3.

3. Steel Structure Designer / Structural Engineer

RAMZ Company & Metal Industries, Kingdom of Saudi Arabia

Dec 2022 – Dec 2024

- Modified and commissioned **guide wheel track railing systems** for mobile platforms across **Riyadh Metro Lines 4, 5, and 6**, ensuring structural compliance and safe retrofitting.
- Executed **JCDecaux billboard installations** at the **Saudi–Bahrain border (KFCA)**, managing cross-border coordination, site logistics, and structural anchoring.
- Designed and supervised the **Monolith Single-Sided Billboard** installation in **Jeddah**, incorporating winch-based lifting and custom anchorage for a multinational client.
- Delivered structural fit-out and MEP coordination for the **Combat Club project in Al- Kharj**, aligning field execution with design specifications.
- Conducted structural site visits and design validation at **Forth Milling Company (Dammam)** and **Bahrain Flour Mill**, ensuring quality assurance and engineering alignment.

4. Structural Design Engineer

HA-MEEM Brothers Consultants (Pvt) Ltd, Pakistan

Jul 2021 – Nov 2022

- Designed 25+ commercial, religious, and residential structures using ETABS and SAFE.
- Key Projects: Mall of Taxila (G+6), Masjid Abdul Jabbar, RCC Overhead Tank (Zone 5 – Swat).

5. Project Superintendent Engineer

IS & Co Pvt. Ltd, Pakistan

Apr 2021 – May 2021

- Delivered as-built drawings and site supervision for a PKR 15.23M Wash infrastructure project in North Waziristan.

6. Faculty Member – Civil Engineering

ANSI Degree College & SARHAD University, Pakistan

Mar 2016 – Apr 2021

- Taught structural design and supervised research in sustainable concrete technologies.
- Led curriculum development and student mentorship in applied engineering.

7. Site Engineer

United Engineers & Contractors, Pakistan

Oct 2013 – Dec 2015

- Supervised construction of public-sector schools, hospitals, and bridges with full QA/QC oversight.

8. Site Supervisor

SUFFA Associates (Pvt) Ltd, Pakistan

Jun 2012 – Jul 2013

- Managed site execution at Islamabad International Airport and Executive Complex.

EDUCATION:

Hons Degree in Civil

SARHAD University, Peshawar

Executive MBA, Civil Engineering Management

National Institute of Management Sciences, Faisalabad

Bachelor of Technology (Civil)

Preston University, Islamabad

Diploma in Civil Engineering

KP Board of Technical Education, Peshawar

CERTIFICATIONS & TRAINING:

1. Construction & Structural Engineering

- **Construction and Project Management**
 - Construction Management & Execution
 - Construction Management Foundations – PMI® LinkedIn Learning
 - Concrete Construction – PMI® LinkedIn Learning
 - Introduction to Lean Construction – PMI® LinkedIn Learning
 - Construction Project Management – Columbia University
- **Structural Design & Analysis**
 - ETABS 20-Story RC Building – BeProEngineer®
 - Strut-and-Tie Modeling in Concrete Structures – CSi Bangkok
 - Seismic Evaluation and Retrofit of Buildings (ASCE 41) – CSi Bangkok
 - Seismic Assessment in Low to Moderate Seismicity Areas – ASCE
 - Seismic Screening Using ASCE 41-13 – ASCE
 - Design Wind Loads Using ASCE 7-16 – ASCE
 - Reinforcement of Existing Concrete Structures – *Hilti Great Britain*
- **Steel Structures & Detailing**
 - Steel Building Design with SOLIDWORKS Weldments – LinkedIn Learning
 - Steel Detailing Course – AISC Detailer Training
 - Anchor General Design and Checkbot – Hilti
- **Advanced Modeling (Dlubal Software)**
 - Structural Design of PV Systems
 - Reading Results in RFEM 6
 - and RSTAB 9 with Dlubal API
 - Geotechnical Analysis in RFEM 6

- Special Features in RFEM 6
 - RSECTION 1 – Strength of Materials
 - Tips & Tricks for Result and Printout Report
 - How to Model and Design a Round-Arched Timber Hall in RFEM 6
 - Masonry in RFEM 6
- ### 2. Process Optimization & Lean Six Sigma
- Lean Six Sigma Green Participation Value Enablers
 - Lean Six Sigma Yellow Belt Certification – Anexas Europe
 - Lean Six Sigma White Belt Certification – Anexas Europe
- ### 3. Project Management & AI Integration
- Generative AI Overview for Project Managers-PMI
 - Practical Application of Generative AI for Project Managers – PMI
 - Cognitive Project Management in AI (CPMAI) – PMI
 - PMI Citizen Developer Business Architect (CDBA) Introduction – PMI
- ### 4. Health, Safety & Environmental (HSE)
- HSE Engineering Specialization – Khalifa University
 - Introduction to HSE Engineering
 - Risk Management and Industrial Safety
 - Environmental Protection and Sustainability
- ### 5. Geospatial & Data Representation
- Coordinate Reference Systems, Projections, and Spatial Data Representation – GIU Geo University
 - Hyperspectral Thermal Image Unmixing – GIU Geo University
- ### 6. Management & Quality Systems
- Quality Management – Great Learning Academy
 - Resource Management – Great Learning Academy

PROFESSIONAL MEMBERSHIPS & CREDENTIALS:

- **Professional Member – American Society of Civil Engineers (ASCE)**
- **Affiliated Member – Structural Engineering Institute (SEI)**
- **Registered Engineer (RE) – National Technology Council Pakistan (NTC)**
- **Community Member- National Council of Structural Engineering Association US**
- **Member- International Association of Engineers**
- **Applied for SCE Saudi Council of Engineers**
- **Community Member [Project Management Institute \(PMI\)](#)**

LANGUAGES:

- **English** – (Fluent)
- **Pashto** – (Native)
- **Urdu/Hindi** – (Fluent)
- **Punjabi** – (Conversational)
- **Arabic** – (Beginner)
- **Bahasa Malay / Indonesian** – (Basic)

KEY ACHIEVEMENTS:

- 🏆 *Young Lecturer Award* – ANSI Degree College
- 🏢 *Outstanding Design Recognition* – HA-MEEM Brothers
- 📁 *Performance Bonus* – Bahrain Flour Mill (RAMZ KSA)
- 📜 *Certificate of Appreciation Project Supervision* – ANSI Degree College

ATTACHMENT:

- [Experience Letters](#)
- [Educational Certificates](#)
- [Courses, Training Certificates](#)