



Ahsin Mehmood

| Structural engineer | Precast Structures | Bridge Engineer | Data Analyst
| Site supervisor | Steel structure | ISO-9001 certification.

📍 Home : District Al Hamdaniya, Jeddah Kingdom of Saudia Arabia.

✉️ Ahsinmehmood09@yahoo.com 📞 Phone :0553146322

📱 WhatsApp messenger : +966-553146322

Iqama ID: 2606567234(Transferable) **Date of birth:** 11/08/1994

Nationality: Pakistani.

About Myself

With over **10 years** of experience in the construction and infrastructure sector, I have contributed to major projects such as the **800 MW Combined Cycle Power Plant, Mohmand Dam**, high-rise commercial and residential buildings, villa housing schemes, fertilizer plants, Tri-Pack Films Plant, **Utility Cable Tunnel Projects, PEB structures**, overhead transmission lines, and **bridge and road networks**. I specialize in precast construction, managing the full cycle from casting to on-site erection to improve efficiency and quality. My work also includes **bridge maintenance and structural evaluation**, ensuring durability and compliance. Additionally, I have been involved in defense infrastructure R&D, applying advanced engineering solutions to meet complex performance need

Structural Design

Bridge designing, Steel structure designing, Reinforced concrete design, Pre-cast reinforced concrete design, Retrofitting of RC structures.

Work Experience

Descon Engineering (Dam Project)

City: Charsadda | **Country:** Pakistan

[25/08/2024 – 19/04/2025]

Infrastructure Manager and Structural Analyst

- Conduct regular inspection of structural elements to ensure compliance with project specification and relevant codes.
- Prepare and submit inspection reports highlighting any issues and recommending solutions.
- Monitory construction activities for adherence to safety regulations and industry best practices.
- Analysis of Hydrostatic pressure on earth filled dams using Abaqus.
- Coordinated with contractors and stakeholders to resolve on-site challenges, maintaining project timelines and achieving a 95% on-time delivery rate.

Genrrale Prefabbricati

City: Perugia | **Country:** Italy

[19/04/2024– 18/10/2024] **Quality and Maintenance Engineer**

- ISO 9001:2015 Quality Certification for the design, construction, and assembly of structures of concrete prefabricated components.
- Operational coverage (production at the factory, transport and launching).
- Erection procedure of precast members on site and safety procedures in extreme conditions.
- Quality assessment of pre-cast members.

Military College of Engineering (Ministry of Defense) Risalpur.

City: Risalpur | **Country:** Pakistan

[01/01/2020– 19/12/2023] **Structural Engineer at Research and Development Projects (R&D)**

- Conducted over 100 site inspections during construction phase, identifying and resolving field issues before they impacted project timeline or budget.
- Executed complex FE analysis for the three significant bridge project, resolving design conflict with client within 48 hours.
- Maintenance of 3d Precast concrete plants.
- Lead the preparation of handover documentation, including test results, inspection reports, as-built drawings, and O&M manuals.
- Manage Non-Conformance Reports (NCRs) and coordinate corrective actions with relevant teams.

Project

Bridges Monitoring Evaluation and Maintenance

Site Inspector in bridge management system (BMS)

Roles and responsibilities.

- Site visits over 50 bridges to access its condition and safety.
- Nondestructive evaluation of bridges especially Photogrammetric techniques, using Drones to capture images (GOM correlate)
- On site structural health monitory of bridges using accelerometers, transducers and data acquisition systems
- Data analysis using BMS software.

Project

British American Tobacco (BAT) – PEB Structure

Junior Design Engineer and Quality Inspector (Pre-cast structures)

Roles and responsibilities.

- Oversee and enforce quality standards on-site for all civil activities in accordance with project specifications and international standards.
- Review of Structural drawings and detailing using Finite Analysis.
- Steel structure connection design using SAP 2000 and Tekla.
- Act as a key liaison between site teams, consultants, and client representatives for quality and handover-related matters.
- Participate in quality audits, technical meetings, and progress reviews.
- Guides the Erection In-charge, the Erection Team and the Team Leader.

Project

Bannu Mukhtar Engineering (Precast Industry) - RND Project

Junior Engineer.

Roles and responsibilities.

- Preparation of drawing for Precast members. (Slab, T-joints, panels, Hollow slabs and Pre-cast columns)
- Design checks according to ACI- 318, ACI/PCI- 319 and ACI-550
- Reviewing mill certificates for reinforcing steel, cement, and aggregates to verify compliance with specifications.
- Verifying dimensions, positioning, and cleanliness of forms and reinforcement.
- Checking concrete mix design for compliance with specifications.
- Monitoring finishing and curing procedures to achieve desired surface quality and strength.
- Ensuring proper documentation of Shop drawings specifications, and quality control procedures.

ZHONGXING TELECOM

City: Islamabad | **Country:** Pakistan

[01/01/2016 – 01/01/2019] **Site Engineer**

- Fabrication erection and Commissioning of the entire range of Telecommunication Towers and Masts.
- Peripheral works like boundary walls, fencing work, and access roads.
- Maintaining daily reports and inspection logs, layouts and as built documents.
- Design of low-rise tower structures to withstand wind.
- Managing the construction process, ensuring compliance with safety regulations, timelines and budgets.
- Produce design solutions for client brief.

Education and Trainings

[14/08/2018 – 29/9/2020] **MS-Structural Engineering**

Military College of Engineering (NUST) | **Country:** Pakistan

Studying Field(s) : Structural Engineering | **Final grade:** 3.3/4.00

Specialization:

Pre-cast concrete structures & Composite structures, Beam column joints, epoxy coated bars, Elevated temperature testing, and impact loading, low carbon cementitious mix, fiber reinforced concrete. Ultra-high-performance concrete, plastic concrete.

Relevant courses:

Concrete Mat & Tech, Reinforced Concrete Members, Adv. Structural Mechanics, Pre-stressed concrete members, Advanced concrete design, Matrix Structural Analysis, Structural Dynamics, and Special topics in civil engineering.

[20/08/2011 – 30/12/2015] **BE- Civil Engineering**

Sarhad University of Science and Information Technology, Pakistan

Studying Field(s) : Civil Engineering | **Final grade:** 3.65/4.00

Mini projects:

- Application of remote sensing and GIS is ground water.
- Application of light weight concrete in Pannels.
- Protection, maintenance and repair of concrete.
- Seismic analysis of five story building.

Online Trainings

[10/04/2024 – 06/5/2024]

Integrated Assessment and Retrofitting of Existing Building

Scuola Superiore Studi Pavia IUSS | **Country:** Italy

Level in EQF: EQF level 6

[14/03/2025 – 19/3/2025]

Design of Steel Structures assisted by Finite Element Analysis

University of Federico II | **Country:** Italy

Level in EQF: EQF level 5

[20/04/2018 – 24/5/2022]

Forensic investigation using nondestructive evaluation

University of Federico II | **Country:** Italy

Level in EQF: EQF level 5

Industrial Training and Diploma

[13/01/2025 – 28/5/2025]

Engineering, Manufacture and construction

University of Trento | **Country:** Italy | **Final grade:** awaiting

Field of study : Engineering, Manufacture and construction.

Specialization

- Foundations of Mechanics and Acoustics (FMA).
- Random Vibrations and Uncertainty Quantification for Metamaterials (RVUQ).
- Industrial testing and visualization of production plants.
- Nondestructive testing of structures.
- Foundations of Waveguides Propagation (FWP).

Languages, certification and skills

Mother tongue : Pashto

Other language(s)

English

LISTENING C1

READING C2

WRITING C2

SPOKEN PRODUCTION C2

SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

Certification

ISO 9001-2015 Lead Auditor (Quality Management System)

Skills

Opensees | Structure Analysis and Design Programs (SAP2000 and ETABS) |
Statistical analyses software's (SPSS, R / R Studio, Amos, NVivo) |
MATLAB/Simulink | MINITAB | Geographical Informational Systems (GIS) |
AutoCAD 2D -3D | Microsoft Excel | Microsoft Word and Excel | primavera p6.
