

S.YERMEENA AHMAD

PERSONAL INFORMATION

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PROFESSIONAL AFFILIATION

- PEC Registered Engineer
PEC# CIVIL/40544
- Student Member, American Society of Civil Engineers (S.M.ASCE), 2023
- Member, The Institution of Engineers, Pakistan (IEP), 2015

SKILLS

- Multi-Story Building
- Steel Structures
- RCC Structural Design
- Seismic design
- Quantity Takeoff
- Familiar with ACI, UBC & AISC standards.
- Responsible & dedicated team member
- Meet deadlines
- Hard working & Energetic

SOFTWARES

- ETABS
- SAFE
- REVIT (Beginner)
- AutoCAD
- MS Office (Word, Excel, PowerPoint)
- Adobe Photoshop
- Adobe Illustrator

CERTIFICATION

Building Information Modeling (BIM) -
5-day Professional Skill Development
Training by Pakistan Engineering Council
(PEC), 2024

Dedicated Civil/Structural Engineer with 6 years of building structure design experience in accordance with industry standards. Collaborate with clients, contractors, & architects to develop high-quality structures that are tailored to their specific needs & deadlines.
Looking to further enhance technical knowledge & structural engineering experience.

PROFESSIONAL EXPERIENCE

Structural Engineer Gulf Consult / November 2024 – Present

- Responsible for structural analysis and design of various commercial and residential projects.
- Utilize advance structural modeling software to optimize designs for efficiency and safety.
- Ensured accuracy in structural drawings and resolved design discrepancies.
- Collaborated with multidisciplinary teams to ensure seamless integration of structural components.
- Prepared comprehensive design reports, drawings, and technical specifications for project execution.

Structural Engineer M/s. Atif Nazar (Pvt.) Ltd. / October 2023 – November 2024

- Developed structural models using industry-standard software (ETABS, SAFE, SAP2000, etc.).
- Conducted classical hand calculations to optimize designs.
- Coordinated with architects and clients to ensure project requirements were met.
- Provided on-site structural inspections and collaborated with contractors to ensure compliance with design specifications.
- Prepared detailed engineering reports, design calculations, and documentation for tendering and construction.
- Reviewed and vetted RCC structure designs to ensure compliance with relevant codes and standards.

Structural Design Engineer M/s. Mushtaq and Bilal / September 2019 – August 2020

- Executed structural design and analysis for multi-story buildings, foundations, and steel structures.
- Developed comprehensive Bill of Quantities (BOQ) for structural works.
- Provided solutions for structural assessments and strengthening of existing buildings.
- Prepared comprehensive design reports, drawings, and technical specifications for project execution.

Junior Structural Engineer M/s. SADAF FATIMA / April 2015 – September 2018

- Assisted in structural design calculations and preparation of detailed drawings.
- Conducted site visits to verify construction compliance with approved drawings.
- Designed and analyzed reinforced concrete and steel structures for residential and commercial buildings.

- Responded to design-related queries and provided technical support to the construction team.
- Ensured that the details of the drawings were in accordance with the structural design, dimensions, details, section and marked for revision the drawings that needed to be revised.

MAJOR PROJECTS

King Edward Medical College

KEMU is establishing its new campus at Muridke (Pakistan). The total area of new campus is around 230 acres and comprises of different building that are listed below.

- Medical & Surgical Ward Tower (G+5)
- Jamia Masjid for 500 persons (G+1)
- Emergency Block (G+3) – Pile Foundation design on SAFE
- Doctor Faculty Residence Type I, Type II, Type III (G+4)

The framing system of buildings is comprised of beam slab system and lateral resisting system has been considered as moment-resisting system.

Naval Research & Development Institute

The Pakistan Navy plans to build a research and development institute at Karsaz, Karachi. The building consists of G+5 floors designed with a dual frame lateral resisting system with IMRF. Structural modeling is done using REVIT software.

Residential Bungalow

Design for a two-story Residential bungalow located at DHA Quetta. As per Pakistan Building Code Quetta lies in High Seismic Zone i.e., Zone 4 so Special seismic zone design parameters has been considered for design.

Oncogen Pharma at Korangi Creek Industrial Park

The Oncogen Pharmaceutical plant with a covered area of 100,000 square feet over 5 floors. The framing system of buildings is comprised of beam slab system. For seismic design, Zone 2B of UBC-97 has been considered with moment resisting frame as lateral resisting system. Raft foundation has been considered for foundation.

McDonald's Restaurant

- McDonald's restaurant located at Pano Aqil. The framing system of buildings is comprised of beam slab system and lateral resisting system has been considered as moment resisting frame. Raft foundation has been considered for foundation.
- McDonald's restaurant located at Sadiqabad. Estimate quantities & prepare structural works BOQ.

Jinnah Postgraduate Medical Centre

The Jinnah Postgraduate Medical Centre (JPMC) extended its ophthalmology ward and constructed a new OPD to accommodate more patients. Superstructure is consists of reinforced concrete beam slab framing with lateral resisting system as moment resisting frame, while the roof has been constructed with a steel structure. Substructure is supported by isolated footing.

Residential Building

Residential Building located at DHA Karachi, featuring a G+4 Stories structure. The framing system of buildings is comprised of beam slab system and lateral resisting system has been considered as moment-resisting system. Substructure is consists of raft foundation as per geo-tech recommendation.

Liaquat National Hospital and Medical College

- Reimaging of Syed Wajid Ali Complex & drop of area at Liaquat National Hospital. Responsible for the analysis and design of Steel structure including columns, trusses & base plate as per anticipated design loads i.e. Dead, Live & Wind loads.
- Design of RCC Structure of Gate house & toilet block.

English Biscuit Manufactures Factory Extension & Assessment

A detailed assessment was done to evaluate the cause of diagonal cracking on the face of RCC beams and the structure's vulnerability level due to cracking. Worked as a member of structure team responsible for key tasks involved are listed below:

- On-site visual inspection
- Reviewing the available As-Built structural plans of building and developing analysis models.
- Analyzing the structure and checking its design as per prevalent Building codes.
- Structural Observations and Assessment report.
- Providing the locations and number of tests to be done by an authorized testing agency.
- Structural Strengthening/Repair Schematic plans and details along with the tentative estimate for strengthening works.

Alongside factory extension was designed for commercial purpose having basement + Ground + 2 floors consisting of covered area approx. 200,000 sft.

Strengthening Of Steel Shed Structure

At The City School branch in Saddar, oversaw the addition of a sandwich panel roof onto a steel shed structure. Conducted a comprehensive structural assessment to evaluate the existing shed's capacity to support the additional load and recommended strengthening measures to ensure its safety

ACADAMIC QUALIFICATION

Master's of Engineering (M.Engg.) - Structural Engineering

2023 - 2025

NED University of Engineering & Technology

Coursework: Finite Element Method, Structural Stability, Advanced Reinforced Concrete, Design of Steel Structures, Structural Dynamics, Computer Methods in Structural Analysis, Prestressed Concrete Design

Bachelor of Engineering (BE) - Civil Engineering

2011 - 2014

NED University of Engineering & Technology

Internship Experience:

- NESPAK (National Engineering Services Pakistan (Pvt.) Ltd. -
Structures Department
- EA Consulting (Pvt) Ltd - Highways Department

Dec-2013

May-2013

Intermediate (HSC) - Pre-Engineering

2008 - 2010

Government Degree College Gulshan-e-Iqbal Block 7

Matriculation (SSC) - Computer Science

2006 - 2008

Primrose Public School