



Sana Ullah

ABOUT ME

I am a Structural Engineer with 11 years of experience in structural design, design vetting, drawings review, shop drawings, and inspections of buildings, and infrastructure projects. Well-versed in Structural standards, codes, and practices, with expertise in design and modeling software's including ETABs/SAP, TEKLA, Autodesk Revit, Navisworks and its implementation in building information modeling including 4D and 5D simulations. Additionally, I have worked on Bus rapid transit project in Pakistan funded by Asian development bank conducted extensive structural inspections, managed contracts, development of new contracts, managed project documentation and coordinated multidisciplinary team.

WORK EXPERIENCE

Structural Engineer

TransPeshawar(The Urban Mobility Company) [25/06/2020 – 30/04/2024]

City: Peshawar | Country: Pakistan

- Monitoring the ongoing operations of BRT Peshawar, which has more than 300,000 daily commuters, involves evaluating the performance indicators of the Intelligent Transport System.
- Design, development and supervision of construction and maintenance contracts by performing feasibility studies, modeling and structural analysis to detailed operational specification schedule for the projects.
- Active member with procurement specialist in prequalification of contractors, tenders' evaluation, preparation, and review of contracts and RFPs for new services and contracts.

A. Managed Contracts of the following Ongoing Operation & Maintenance Projects:

1. Design and Structure analysis of 1 Megawatt solar park in Bus Rapid Transit system Peshawar
2. Operation and Maintenance of Elevators & Escalators and provision of allied services in Peshawar BRT System.
3. Operation & Maintenance of PSD, Street Lights and Electrical Equipment Services in Peshawar BRT System.
4. Operation and Maintenance of Generators, Dewatering Pumps & UPSs in Peshawar BRT System.
5. Intelligent Transport System/AFC Contract

B. Achievements:

Successfully modelled and executed the following Projects:

1. Maintenance of Electrical, Mechanical and Civil Works in Peshawar BRT system.
2. Electro Mechanical and Civil Works (Establishment of new Feeder Route Services) in Peshawar BRT System.
3. Landscaping and Civil Works Services in Peshawar BRT System.
4. Electrical, Mechanical and Civil Miscellaneous works in Peshawar BRT System
5. Drainage System and Civil Works Services in Peshawar BRT System.
6. Procurement, design and installation services of Bridge Expansion Joint along with other allied services in Peshawar BRT System.

C. Received and Honored by Best Performance Award/Certificate

Skills: Project Management · Intelligent Transportation Systems · Teamwork · Project implementation & · Compliance Regulations · Contract Management · Engineering, Procurement, and Construction (EPC) · REVIT · Building Information Modeling (BIM)

Junior Structural Engineer

Euro Consult Pakistan Pvt Ltd [01/09/2016 – 30/06/2020]

City: Peshawar | Country: Pakistan

- Involved in all aspects of the project - designing, planning by performing site visits for feasibility study and supervising the construction to ensure that it matched the specifications and met quality standards.
- Design and Supervision of flood protection walls, canal patrol roads, culverts, and channelization of irrigation canals at multiple locations as per drawing and specifications.
- Successfully completed multiple projects under annual development programme of Khyber Pakhtunkhwa, Pakistan.

Site Engineer

Malik Ismail Sher & Sons Construction Company [01/04/2015 – 31/08/2016]

City: Charsadda | Country: Pakistan

- Work as team member in Bidding process, planning, estimating, and quantity control on multiple projects.
- Created comprehensive project plans and schedules that were integral in keeping the projects on-track, and within budget
- Manage, implement, and monitor the technical construction activities on field with client and consultants.
- Completed multiple projects with public sector clients on time.

EDUCATION AND TRAINING

Master in Civil Engineering

CECOS University of IT & Emerging Sciences [13/09/2014 – 13/12/2016]

Address: Peshawar, Peshawar (Pakistan)

BSc Civil Engineering

CECOS University of IT & Emerging Sciences [01/10/2010 – 13/10/2014]

Address: Peshawar KPK, Peshawar

Diploma in Project Managment

Pakistan Institute of Modern Studies [01/06/2020 – 30/06/2021]

Address: Islamabad, Islamabad (Pakistan)

NextGen Engineers- Advanced Training Courses for a Sustainable Tomorrow

Bauhaus-Universitat Weimar, Germany [17/08/2024 – 01/09/2024]

City: Weimar | Country: Germany | Field(s) of study: Engineering, manufacturing and construction: • Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction | Level in EQF: EQF level 3 | Type of credits: ECTS | Number of credits: 3 | Thesis: Non Linear Modeling and Analysis of Unreinforced Masonry Structures

- Integration of Sustainable development goals (SDGs) into Engineering projects, aligning design, analysis and simulation with sustainability principles
- Design, analysis and simulation methods with sustainable practices in preserving and retrofitting existing structures
- Digital documentation of building structures and implications for sustainable practices

BIM Fundamentals for Engineers

Coursera [2024 – 2024]

Website: www.coursera.org

BIM Application for Engineers

Coursera [2024 – 2024]

Website: www.coursera.org

Building Smarter, BIM in Practice/Coordination

Coursera [2024 – 2024]

Website: www.coursera.org

Information manager-basics

Plannerly - The BIM Management Platform [2024 – 2024]

Website: https://plannerly.com/tutor-certificate/?cert_hash=9643742e6176b657

Project Planning and Control

Smart PM Training [2024]

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C1 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

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

DIGITAL SKILLS

Microsoft Office / Structural Analysis and Design Packages ETABS SAP 2000 / PROFICIENCY IN AUTODESK REVIT / Navisworks / Tekla structural / Abaqas / BIM Management (Template & CollaborationTools)

PUBLICATIONS

[2016]

Use of PET bottles fibres as a partial replacement of fine aggregate in concrete

Sana, Ullah. (2016) ICTEMS-16-249 ISBN No: 978-969-23044-2-9

[2017]

Experimental study of confinement in beams of low strength recycled aggregate concrete.

Asif Ali and Sana Ullah. (2017) IJCMS VOL. 3, ISSUE, 02, PP.595-598, February. 2017.

[2018]

Use of Nano Silica as a partial replacement of cement in concrete

Shah Faisal and Sana Ullah. (2018), ICETEMS-18-257 ISBN No: 978-969-23044-3-6

[2018]

Use of recycled aggregate as a partial replacement of fine aggregate in concrete

Sana Ullah. (2018), ICETEMS-18-267 ISBN No: 978-969-23044-3-6

CONFERENCES AND SEMINARS

[28/12/2016 – 30/12/2016] Peshawar KPK Pakistan

2nd international conference on Emerging trends in Engineering Management & Sciences Presented research articles

[18/10/2018 – 19/10/2018] Peshawar KPK Pakistan

