



MUNEER AHMED

Nationality: Pakistani **Gender:** Male

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Current location: Rome, Italy

ABOUT ME

Detail-oriented 5 years of professional experience and 4 years of research experience as a structural engineer. I enjoy tackling difficult problems. I have gained a significant amount of knowledge that I believe will be extremely beneficial to your organization. I am an excellent multitasker who can perform well in a high-pressure work environment.

WORK EXPERIENCE

Structural Designer

CSCEC China State Construction Engineering Corporation [01/07/2021 – 01/01/2022]

City: Shanghai

Country: China



中國建築股份有限公司
CHINA STATE CONSTRUCTION ENGRG. CORP. LTD

- To develop new design ideas by FEM Simulations by using ANSYS, ABAQUS and Revit

- Numerical Modeling of Spatial Structures Domes/Shell/Arches
- Using computer simulations to predict how structures will react under different load/ behavior/ design conditions
- Different Structural Members
- BIM for building and construction process

Research Assistant

Zhejiang University [14/01/2020 – 30/06/2021]

City: Hangzhou

Country: China

- Finite Element Analysis

- Spatial Structures
- Composite Structures
- 3D printing and sustainable construction
- Structural and Experimental Modelling of new smart structures

Quality Control Engineer

CR20G Chinese Construction firm [25/01/2016 – 08/08/2017]



City: Ghotki, Sindh

Country: Pakistan

I was appointed as Quality control engineer to supervise and controlling quality of structural work (Bridges, underpasses, tunnels and subways).It was the project of constructing 200km long motorway.

- To investigate and check the qualities of materials used in project like steel, concrete, bitumen etc
- To work out on the loads and stresses on different parts of a structure
- Worked closely on construction plans and design with clients, architects, and other professionals

Structural Designer

Mughal Engineers [07/01/2015 – 12/12/2015]

City: Karachi, Sindh

During my bachelor's degree I worked 1 year part-time as a Structural designer in a reputed construction company of Pakistan, My job responsibilities were to design maps and detailed drawings by using simulation software Abaqus/Ansys and AutoCAD.

EDUCATION AND TRAINING

Research Assistant

School of Civil Engineering Zhejiang University [14/01/2020 – 30/06/2021]

Address: Hangzhou (China)

Website: <http://www.zju.edu.cn>



Masters In Civil Engineering (Structural Engineering) 2 Years

TIANJIN UNIVERSITY CHINA [31/08/2017 – 30/12/2019]

Address: No. 92, Weijin Road, Nankai District, 300072 Tianjin (China)

Website: <http://www.tju.edu.cn>



Bachelors of Civil Engineering (4 Years)

QAUID E AWAM UNIVERSITY OF SCIENCE AND TECHNOLOGY NAWABSHAH SINDH PAKISTAN [02/01/2012 – 05/01/2016]

Address: Quaid-e-Awam University Sakrand Road, 67450 Nawabshah, Sindh (Pakistan)

Website: <http://www.quest.edu.pk>



LANGUAGE SKILLS

Mother tongue(s): **Sindhi**

Other language(s):

English

LISTENING C1 READING B2 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C2

Chinese

LISTENING B2 READING A2 WRITING A1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Urdu

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

PUBLICATIONS

FEM Analysis of Multi Storied RC Structure using (E-TAB simulation) and Need of High rise structures in Developing Countries

[2017]

Conference Paper

International Conference on Sustainable Development in Civil Engineering, MUET, Pakistan (Nov 2017)

https://www.mueta.edu.pk/sites/default/files/site_files/ICSDC%202017%20Proceedings%20Volume%20I.pdf

Experimental Study and Finite Element Modeling of Reinforced Concrete Column Having an Opening

[2019]

Journal Paper

The International Institute for Science Technology and Education (IISTE) 1 Dec 2018.

ISSN 2224-6096 (Paper) ISSN 2225-0581 (online) DOI: 10.7176/IEL Vol.9, No.1, 2019.

<https://www.iiste.org/Journals/index.php/IEL/article/view/45962/47464>

Parametric Study on Ultimate Bearing Capacity of CFST Arch Bridge

[2021]

Journal Paper

North American Academic Research, 4(5) 226-244, May 2021,

Paper ISSN: 1945-9098

<https://doi.org/10.5281/zenodo.4843497>

<https://twasp.info/journal/Mq1884Wq/parametric-study-on-ultimate-bearing-capacity-of-cfst-arch-bridge>

Causes of Delay in Highway Projects in Pakistan

[2016]

Conference Paper

8th International Civil Engineering Congress (ICEC 2016) "Ensuring Technological

Advancement through Innovation Based Knowledge Corridor" December 23-24, 2016,

Karachi, Pakistan.

<https://icec.neduet.edu.pk/sites/default/files/les/proceedings/ICEC-2016%20Proceedings.pdf>

The structural behaviour of sustainable concrete that incorporate use of agro-industrial waste and recyclable construction materials

[2023-Under review

Muneer Ahmed, Suliman Khan

DIGITAL SKILLS

- ABAQUS (FEM)
- ANSYS (FEM)
- MATLAB
- ORIGIN PRO
- OPEN SEES

RESEARCH PROJECTS

Bachelor's Degree Research Projects

- Analysis for seismic retrofitting of buildings
- Precast concrete sandwich panel or PCSP technology
- Finite Element Analysis of Multi Storied RC Structure using (E-TAB) and Need of High rise structures In developing Countries (Pakistan) **(BS THESIS)**

Master's Degree Research Projects

- FEM & Analytical Analysis of Local and post-local buckling of steel tubes in thin walled circular concrete filled steel tubular columns
- Study on BIM and digital twin methods in construction
- Experimental Study and Finite Element Modeling of Reinforced Concrete Column Having an Opening
- Study on Behavior of Rectangular and Circular CFST Columns subjected to Different loads **(MS THESIS)**

Post Master's Degree Projects

- Advanced structural monitoring for resilient infrastructures
- Experimental and FEM study on prototype bridge by using vision inspection method (Motion Magnification on its Phase-Based version in MATLAB)
- Structural properties of sustainable precast self-compacting concrete shell Beam incorporating grounded coal bottom Ash and Coir Fibre
- Cantilever beam vibrations by using a Quanser Shaking table machine and optical measuring system
- Parametric study of four points loading of I shaped Basalt fiber reinforced polymer BFRP beams

HONOURS AND AWARDS

- Received Certificate of Appreciation for 1st Position in Project Exhibition on Model of High rise building at Quaid e Awam Engineering University Nawabshah
- Received National Govt. Scholarship for the Final Year Bachelors degree Project
- Best Employee award by Cr20g Construction company
- Certified Engineer by Pakistan Engineering Council
- Fully funded Chinese government scholarship for Master's Degree
- European Union's Marie Skłodowska-Curie fellowship for research work

MANAGEMENT AND LEADERSHIP SKILLS

- Self Aware
- Confident
- Creative
- Verbal
- Excellent critical thinking skills to identify alternative approaches and solutions to complex problems
- Strong ability to manage material resources in order to determine appropriate use of facilities and equipment
- Strong ability to communicate by listening and asking the right questions as well as writing effective reports

AFFILIATIONS

- Civil Society Support Program
 - Model United Nation (MUN) Quest Nawabshah Branch
 - Pakistan Engineering Council
 - Youth Parliament Pakistan
 - Project Management Institute Pennsylvania
 - International Student Union of Tianjin University China
 - Marie Skłodowska-Curie young researchers association
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