




IRFAN KHAN

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Research Interest

During my four year degree, studying basics of Civil Engineering, I got profoundly interested in Structural Engineering with an inspiration of further studies in the field. I have developed a particular interest in the computational modelling of masonry structures for seismic loading, on which I have carried out my MSc research work. I would like to advance my research further, through PhD study under the supervision of an expert at a remarkable institution.

Education

- Oct 2017 – Mar 2020 **MSc in Structural Engineering**
University of Engineering and Technology Peshawar, Pakistan
▪ **Thesis Title:** Computational Seismic Analysis of Dry-Stack Block Masonry
- Oct 2013 – Jul 2017 **BSc in Civil Engineering**
University of Engineering and Technology Peshawar, Pakistan
▪ **Final Year Project:** Analysis and Design of Sandwiched Concrete Insulated Panel (SCIP) Buildings using SAP2000
- Sep 2010 – May 2012 **Higher Secondary School Certificate**
Islamia College Peshawar, Pakistan
▪ Pre-Engineering

Research Experience

- Sep 2019 – May 2020 **Research Associate**
University of Engineering and Technology Peshawar, Pakistan
Responsibilities:
▪ Literature study on “Seismic Performance Evaluation of Adobe Structures”
▪ Casting samples using “Adobe Bricks” for prism and triplet tests
▪ Testing of samples according to ASTM
▪ Construction of Adobe Walls for Quasi-Static Tests and their Computational Modelling
▪ Guidance and assessment of Bachelor students on their Final Year Projects
- Jan 2019 – Sep 2019 **Research Associate**
University of Engineering and Technology Peshawar, Pakistan

Responsibilities:

- Supervision of construction of half and full scale rooms
- Technical Assistance on construction activities
- Laboratory Testing of Materials
- Calculations for Half Scale Model for Shake Table Test

Mar 2018 – Dec 2018

Research Assistant

University of Engineering and Technology Peshawar, Pakistan

Responsibilities:

- Modelling and Analysis of Reinforced Concrete Sandwich Panels (RCSPs) using SAP2000 for Blast Load

Oct 2017 – Mar 2018

Teaching Assistant – Geotechnical Engineering

University of Engineering and Technology Peshawar, Pakistan

Field Experience

Jun 2020 – Date

Assistant Resident Engineer – Earthfill Dam

Consulting Associates Peshawar, Pakistan

- Quality Control of materials on site
- Inspection of formwork, steel reinforcement and concrete pouring
- Verification of lab and field tests according to standards
- Monthly Progress Report

Oct 2017 – Feb 2018

Trainee Engineer

Khyber Geotechnical Services Peshawar, Pakistan

Responsibilities:

- On-site tests (SPT, CPT, Plate Load and Vane Shear Tests)
- Lab tests (Sieve Analysis, Atterberg Limits and Consolidation Tests)
- Geological Studies using ArcGIS
- Preparation of Geotechnical Reports

Publications

- **Khan, I.** Gul, A. Shahzada, K. Khan, N.A. Rehman, F. Ullah, Q.S. Kattak, M.A. (2021), Computational Seismic Analysis of Dry-Stack Block Masonry Wall, *Civil Engineering Journal* 7(3).
- Ali, M. Rehman, G. Ahmad, K. Khan, S.W. **Khan, I.** Ullah, A. Shahzada, K. Analysis of the effect of phase change material on indoor temperature in subtropical climate region, *International Journal of Solar Thermal Vacuum Engineering 1, Issue 1* (2020).

Short Courses / Seminars

Oct 30, 2019

Groundwater Resource Management in Pakistan: Issues and Options

Nov 10, 2018 Administrative Office Management

Certification

Jul 28, 2017 Certificate of Participation, Poster Competition: Institution of Civil Engineers

Nov 16 & 17, 2016 Certificate of Participation; Invention to Innovation Summit

Nov 27, 2015 Certificate of Merit; KP Wooden Bridge Design Competition 2015

Skills

Software skills MS Office, MATLAB, AutoCAD, Civil 3D, SAP2000, ETABS, Primavera P6, ANSYS, ABAQUS

Language skills Pashto / Native, English / Fluent, Urdu / Fluent

Hobbies

- Teaching
- Newspaper Reading
- Technical Documentaries

References

- **Dr. Khan Shahzada**
Professor, Civil Engineering Department, UET Peshawar
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- **Dr. Mohammad Adil**
Assistant Professor, Civil Engineering Department, UET Peshawar
Email: adil@uetpeshawar.edu.pk