



## Rahat Ullah

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### PROFILE SUMMARY

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#### Profile Summary

Civil and Structural Engineering professional with over a decade of experience spanning academia, project management, and building services. Skilled in structural principles, life safety systems, and multidisciplinary coordination under ACI, AISC, ASTM and NFPA standards. Combines academic expertise as a university lecturer with practical leadership in design integration, quality assurance, and stakeholder management. Recognized for bridging technical and operational goals through efficient planning, documentation, and team collaboration. Managed projects up to \$50 million, ensuring on-time and within-budget delivery.

### WORK EXPERIENCE

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#### 🏢 *Electrical and Power Contracting Co. – NEOM, Saudi Arabia*

City: NEOM | Country: Saudi Arabia | Business or sector: Construction

#### **Project manager**

[ 01/03/2024 – 10/03/2025 ]

Spearheaded end-to-end project management for Fire Protection and Life Safety System initiatives in the NEOM region, encompassing Professional Village and Trojena Mountain Village with a total project value of 174M SAR.

Crafted comprehensive project charters, defining scope, objectives, and deliverables in compliance with NFPA, NEOM Standards, and Saudi Building Codes.

Led multidisciplinary teams of engineers and technicians, fostering collaboration between mechanical, electrical, and architectural functions.

Managed design review processes, risk assessment, quality assurance, and regulatory approval stages to ensure delivery of code-compliant systems.

Implemented structured project management methodologies and leveraged data analytics for enhanced transparency, risk mitigation, and operational excellence.

#### 🏢 *CECOS University of IT and Emerging Sciences – Peshawar , Pakistan*

City: Peshawar | Country: Pakistan

#### **Lecturer/Exam Coordinator/Lab Engineer**

[ 08/03/2011 – 07/03/2023 ]

Progressed through various academic and administrative roles in the Department of Civil Engineering, enhancing teaching quality and institutional development.

Designed and delivered civil engineering courses using modern techniques and digital tools, resulting in overall improvement in student performance.

Mentored and advised students, leading to increase in retention and student's active participation in curricular and co-curricular activities.

Worked with the departmental team to implement Outcome-Based Education (OBE) initiatives.

Participated in departmental research and publication activities to boost institutional visibility.

Streamlined exam coordination, scheduling, and grading, achieving increase in efficiency and reduction in academic misconduct.

Managed laboratory operations, ensuring safety compliance and optimizing equipment calibration and inventory systems, reducing downtime and material shortages.

Participated in Self-Assessment Report (SAR) and Continuous Quality Improvement (CQI) committees, contributing towards enhancement in curriculum effectiveness.

Represented the university at international conference and high quality peer reviewed journal.

## EDUCATION AND TRAINING

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### Master of Science in Structural Engineering

*University of Engineering and Technology* [ 20/04/2017 ]

**City:** Peshawar | **Country:** Pakistan | **Field(s) of study:** Engineering, manufacturing and construction | **Thesis:** Development of a Generalized Artificial Neural Network Tool for Mix Design of Fiber Reinforced Concrete

Developed advanced expertise in structural system design, analysis, and assessment.  
Focused on reinforced concrete, steel design, and seismic performance.  
Coursework and research adhered to ACI, AASHTO and ASCE standards.  
Enhanced practical skills through analytical modeling and computational tools.  
Applied real-world problem-solving techniques in modern structural engineering.

### Bachelor of Science in Civil Engineering

*University of Engineering and Technology* [ 2006 – 2010 ]

**City:** Peshawar | **Country:** Pakistan

Established a solid base in civil engineering fundamentals: structural analysis, geotechnical design, hydraulics, and transportation systems.  
Participated in practical lab and design projects focusing on safety, sustainability, energy efficiency and adherence to engineering codes.

## SKILLS

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Structural Engineering / Civil Engineering / Project Management / Stakeholder Communication / QA/QC and Risk Management / Multidisciplinary Coordination / Codes and Standards / Fire Protection and Life Safety / Research and Problem Solving / Technical Documentation and Reports

## CONFERENCES AND SEMINARS

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[ 27/04/2017 – 28/04/2017 ] Karachi, Pakistan

**First International Conference on Modern Trends in Science, Engineering & Technology (MTSET-2017): Roadmap for Sustainable and Collaborative Development** First International Conference on Modern Trends in Science, Engineering & Technology (MTSET-2017) organized by Office of Research, Innovation and Commercialization (ORIC) of Dawood University of Engineering & Technology (DUET) in collaboration with Pakistan Higher Education Commission (HEC) and British Council Pakistan. The aim of MTSET-2017 is to nurture research culture within DUET and Pakistan through finding gaps in Modern Trends in Science, Engineering & Technology.

[ 14/03/2014 – 14/03/2014 ]

### Seismic risk assessment of a building

One day Seminar on “Seismic risk assessment of a building” Pakistan Engineering Council, CPD activity, March, 13, 2014

[ 11/03/2014 – 11/03/2014 ]

**Interactive workshop on Continuing Professional Development (CPD) framework for professional development of Engineers** Interactive workshop on Continuing Professional Development (CPD) framework for professional development of Engineers, Organized by Peshawar Electric Supply Company (PESCO)

## PUBLICATIONS

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[2017]

**Strategy for development of a generalized Artificial Neural Network (ANN) model for mix design of concrete** Conference paper published in First International Conference on Modern Trends in Science, Engineering &

Technology (MTSET-2017) organized by Office of Research, Innovation and Commercialization (ORIC) of Dawood University of Engineering & Technology (DUET) in collaboration with Pakistan Higher Education Commission (HEC) and British Council Pakistan.

Rahat Ullah and Dr. M Adil, Department of Civil Engineering, a. CECOS University, b. UET Peshawar

[2020]  
**[Effect of number of neurons and layers in an artificial neural network for generalized concrete mix design](#)** Research article published in renowned science journal- Neural computing and applications. This journal has a Five years impact factor of 6 and is one of the highly cited among scientific journals.

Adil, M., Ullah, R., Noor, S. et al. Neural Comput & Applic 34, 8355–8363 (2022).

Link: <https://doi.org/10.1007/s00521-020-05305-8>

## **PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS**

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[ 2018 – Current ]

### **Professional Engineer**

Registered as professional Engineer by Pakistan Engineering Council

## **HOBBIES AND INTERESTS**

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**DIY, Blockchain, Prompt Engineering**