

Aleem Ullah



✉ aleemullah@alumni.kaist.ac.kr ☎ +97455791068 🏠 Doha, Qatar 📅 January 22nd, 1991 🚗 Qatar
🇵🇰 Pakistani 👤 Married 🔗 linkedin.com/in/aleemu ➤ Urdu (Native), Punjabi (Native)

Research Interests

- Protective Structures
- Structures under extreme loads such as earthquake, hurricanes, impact, blast, and fire
- Progressive Collapse Analysis
- Structural Health Monitoring
- Machine Learning Applications in Civil Engineering

Education

Sep 2013 - Feb 2016

■ **MS Structural Engineering**
KAIST, South Korea
M.S. thesis title: *Collapse Analysis of Reinforced Concrete Beam-Column Structures*
CGPA: 3.67/4.30

Nov 2008 - Aug 2012

■ **BE Civil Engineering**
NUST, Pakistan
BE thesis title: *Design and Analysis of Reinforced Concrete Bridge Superstructure*
CGPA: 3.76/4.00

Valid Test Scores

- IELTS (Academic): 6.5 bands | IELTS (General): 7.5 bands
- GRE: 292

Computer Skills

- **FEM:** LS DYNA, LS Prepost
- **Programming:** Matlab, Python
- **CAD:** AutoCAD, Revit, Navisworks, Rhino/ Grasshopper
- **Analysis & Design:** CSI SAP2000, CSI Etabs, CSI SAFE
- **Member Design:** CSI Col, Limcon, Tekla Tedds, Prokon, Concise Beam
- **Microsoft Office:** Word, Excel, PowerPoint, Outlook, OneNote

Employment

May 2022 - Present

■ **Design Coordinator**
QD-SBG Construction, Qatar

- Technical coordination among QD-SBG engineering team, design constlant and subcontractors to smoothly deliver the design and engineering outcomes on time.

Notable Projects

- Lusail Huzoom Project Phase 1

Nov 2016 - Dec 2021

■ **Structural Engineer, Design Department**
Redco International, Qatar

- Structural design of precast buildings (beams, columns & Hollow cores)
- Production of structural design, shop, fabrication and as-built drawings

Notable Projects

- Mall of Qatar
- IKEA, Doha Festival City
- Qatar Rail Metro Stations - Qatar University and Lusail
- Qatar Rail - Western Green Spine Pedestrian Underpass
- Qatar Rail - Station Area Works (35 Stations)
- Bus Depot Projects - Lusail, Al Rayyan, and Industrial Area

Apr 2016 - Oct 2016

■ **Junior Structural Engineer**
EGC-SMEC International, Pakistan

- Structural analysis and design under supervision of a senior structural engineer.

Notable Project

- Trimmu Barage Expansion Project

Jan 2015 - May 2015

Exchange Student Supervision

AAML @ KAIST, South Korea

- Supervised an exchange student from Tongji University for his thesis project titled "Design and Analysis of a 3 span Cable Stayed Bridge"

Jan 2014 - May 2014

Teaching Assistant

KAIST, South Korea

Course code (37.419) - Experimental Vibration Engineering

- Coordinated and prepared course material, and arranged lab practical with Shake Table and Matlab.

Sep 2013 - Feb 2016

Research Assistant

AAML @ KAIST, South Korea

- FEM - progressive collapse analysis, protective structures, Analysis of structures under extreme loads (impact/blast)

Sep 2012 - Aug 2013

Junior Civil Engineer. Planning and Acquisition Department

National Logistics Cell, Islamabad

- Involved in the development of macro level planning and monitoring system

Workshops

- Machine Learning Training for Natural Hazards Engineering by NHERI & DesignSafe SimCenter, Sep 26-30, 2022.
- Engineering based Fragility and Vulnerability Assessment by UNESCO & UCL EpiCenter, Sep 22-23, 2022.

Volunteer Experience

- Sustainability Volunteer at FIFA Arab Cup 2021 and FIFA World Cup 2022.
- Funds raised for 2010 Floods in Pakistan with NUST Community Service Club
- Organized Sports Gala (2012) for SOS Villages and Government Orphan Houses across Pakistan.
- New international students mentoring under KAIST Oasis.

Publications

- **Aleem Ullah**, Furqan Ahmad, and Jung-Wuk Hong, "Review of analytical and empirical estimations for incident blast pressure," Journal of Korea Society of Civil Engineers, 2017. doi:10.1007/s12205-016-1386-4 (Citations: 42 - as per Researchgate)
- **Aleem Ullah**, and Jung Wuk Hong, Review of Analytical and Empirical Estimations of Blast Effect. International Conference on Computational and Experimental Engineering and Sciences, Changwon, South Korea, 2014.
- **Aleem Ullah**, and Jung Wuk Hong, Validation of LS-DYNA LBE with Analytical and Empirical Estimations of Incident Blast Pressure, The Twenty- seventh KKHTCNN Symposium on Civil Engineering, Shanghai, China, 2014.
- **Aleem Ullah**, Jung Jaewook, and Jung- Wuk Hong, RC Beam- Column joint models for progressive collapse simulation, KIBSE Annual Meeting and Conference, Goyang, South Korea, 2014.
- Dias Bakhtiyarov, **Aleem Ullah**, Jaewook Jung, and Jung Wuk Hong, Collapse Analysis of Reinforced Concrete Beam- Column Structure, COSEIK Annual Conference, Daejeon, South Korea, 2016.

Awards and Honours

- KAIST Graduate scholarship (2013) for MS.
- NUST Performance scholarship throughout BE program.
- Ranked 4th out of 180 students in Undergraduate at NUST.
- Performance scholarship during HSSC at GCU Lahore 2006 to 2008.
- Ranked top 2% among candidates in NUST Entrance Exam 2008.
- Ranked top 2% for country-wide Kangaroo Mathematics contest in 2007.
- Runner up in a Bridge Building Competition by NUST Science Society in 2010.
- Ranked 1st in SSC Board Exams (2006) across a Tehsil named Wazirabad.
- Ranked 4th in 8th Grade Board Exams (2004) in whole Gujranwala district.

References

References available upon request.