

ALEEM ULLAH

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Profession: Civil Engineer



CAREER OBJECTIVE

To work in a career oriented professional organization that provides the opportunity of enhancing my skills, working in a team to face all challenges & take the organization to unprecedented heights.

PERSONAL DETAILS

NIC Number: 34104-6632837-1
Passport Number: BU1758372
Father's Name: Saif Ullah (Late)
Date of Birth: 22nd January 1991
Nationality: Pakistani
Religion: Islam
Marital Status: Single
PEC Number: CIVIL/32972

EDUCATION HISTORY

Master of Science (CGPA: 3.67/4.30) Department of Civil and Environmental Engineering Korea Advanced Institute of Science and Technology (KAIST), South Korea	2013 – 2016
Bachelor of Engineering (CGPA: 3.76/4.00) Department of Civil Engineering, <i>Distinction</i> (Ranked 4 th in batch of 146) National University of Science and Technology, Pakistan	2008 – 2012
Higher Secondary School Certificate (926/1100) Pre-Engineering (Physics, Chemistry, Mathematics) Government College University, Lahore, Pakistan	2006 - 2008
Secondary School Certificate (937/1050) Matric (Physics, Chemistry, Mathematics, Electrical Wiring) Government High School No. 1, Ghakhar, Punjab, Pakistan	2004 - 2006

EMPLOYMENT HISTORY

Junior Structural Engineer Design section, Lulu Precast Factory, Mesaieed Redco International W.L.L, Qatar	2016 - Present
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- Designed hollow core roof and pre-stressed beam for New Port Project – Strategic Food Security Project using Concise Beam software.
- Designed boundary wall components such as columns, panels, plinth beams, and wall panels of Green Top Project in Qatar.
- Analyzed a Rice Storage Silo to check whether we could construct it using precast circular beams and panels. Analysis was carried out using SAP2000 and Etabs, a comparison between the results was made.

- Prepared shop drawings of precast cladding panels for Abraj Quartier Project with focus on connections, panel layout and elevation; and reinforcement.

Junior Structural Engineer

2016

Trimmu and Panjnad Barrage Improvement Project

SMEC – Engineering General Consultants, Pakistan

As a junior structural, I assisted in designing of following components of Trimmu Barrage Project using SAP2000, Quick Retaining Wall, SAFE and design excel sheets:

- Weir floor
- Pre-stressed girder bridge
- Retaining wall
- Flared out wall

Planning Engineer

2012 – 2013

Planning and Acquisition Division

National Logistics Cell, Pakistan

- As planning engineer at National Logistic Cell, I was involved in the development of macro level planning and monitoring system for all on-going construction projects of National Logistics Cell (NLC) in Pakistan. Scope of projects ranged from Infrastructure Development Works, Bridges & Flyovers, Transportation Structures and Road Works.
- To prepare weekly grand summary for on-going works highlighting work progress, estimated budgets, anticipated profitability, expenditure details and cash flow charts.
- Preparing initial baseline plans including bar charts, profile charts, resource plans & cash flow charts for new works.
- Preparing technical reports, cost comparisons, rate analysis and project briefs for higher management.
- Worked on various projects including Infrastructure Development of DHA E8 Karachi, Kalma Chowk Flyover, Muslim Town Flyover, Gujranwala Bypass Flyover, Dualization of Mandra - Sohawa - Chakwal Road, and Gujranwala - Hafizabad Road.

Intern (Building site works)

2012 – 2013

World Trade Center, Rawalpindi

Al Gurair Giga, Pakistan

As site engineer, my duties included:

- Supervising various structural works at World Trade Center (WTC) building project in Rawalpindi, including concreting of mat footings, roofs and columns.
- Preparing and implementing bar bending schedule WTC building.
- Implementing detailed structural drawings at WTC building.
- Managing and coordinating with subcontractors on work progress.
- Looking after material procurement, payment certificates and billing documents.
- Ensure work compliance with quality standards and ensure health and safety practice on site.

Intern (Road site works)

2011

Repair and Maintenance of Multan Road, Lahore

National Logistics Cell, Pakistan

As an intern at National Logistics Cell, I was attached with a senior road engineer who practically explained the construction drawings and their on ground application. Moreover, I had the chance to observe the practices of material testing on site.

Intern (Interchange site works)

2010

Islamabad to Peshawar Motorway (M1)

National Highway Authority, Pakistan

As an intern at National Highway Authority of Pakistan, I had the chance to understand the office and site environment. I learned about the different operational units of NHA and how they are working together. I was able to learn about ongoing major road projects and planned major projects in near future.

REFEREED JOURNAL ARTICLES

1. **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*, 2016. doi:10.1007/s12205-016-1386-4
2. **Aleem Ullah**, Muhammad Usman, "Simulation of blast load using LS-DYNA" (*In preparation*)
3. **Aleem Ullah**, Muhammad Usman, "Numerical and experimental investigation of low velocity impact on RC slab" (*In preparation*)
4. **Aleem Ullah**, Muhammad Usman, "Repair and strengthening of concrete structures using FRP composites – a review" (*In preparation*)

CONFERENCE PROCEEDINGS

1. **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.
2. **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.
3. **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.
4. Dias Bakhtiyarov, **Aleem Ullah**, Jaewook Jung, and Jung Wuk Hong, Collapse Analysis of Reinforced Concrete Beam-Column Structure, *COSEIK Annual Conference*, Daejeon, Korea, 2016.

RESEARCH EXPERIENCE AT KAIST

RA Advanced Applied Mechanics Lab, KAIST 2013 – 2015

As research assistant, I worked several projects which generally include:

- Finite element analysis of reinforced concrete structure and CFRP composite plate
- Impact and blast analysis of structures using finite element modeling general purpose software LS DYNA
- Preparation of progress reports and presentation for sponsors

EDUCATIONAL EXPERIENCES AT NUST

TA	Strength of Materials – I	Fall 2010
TA	Theory of Structures – I	Spring 2011
TA	Engineering Mechanics	Fall 2011
CR	Section A, Batch 2008	2011 – 2012

AWARDS & SCHOLARSHIPS

KAIST Graduate Scholarship	2013 – 2015
Master of Science, Civil and Structural Engineering	

Undergraduate Merit Scholarship

Based on attaining GPA more 3.5 in all semesters

2008 – 2012

Graduation with Honors*Distinction*, Department of Civil Engineering, National University of Science and Technology, Pakistan

2012

Semester	Semester GPA	Position
1 st Semester	3.65	5 th Position
2 nd Semester	3.70	4 th Position
3 rd Semester	3.76	3 rd Position
4 th Semester	3.82	2 nd Position
5 th Semester	3.94	1 st Position
6 th Semester	3.84	2 nd Position
7 th Semester	3.65	5 th Position
8 th Semester	3.72	3 rd Position
Overall	3.76	4th Position

HSSC Merit Scholarship

Superior performance, Government College University, Pakistan

2006 – 2008

SSC with Honors1st position in Division (Wazirabad), SSC Board Exams

2006

Kangroo Mathematics Contest

Got distinction in Pakistan

2007

Sytek Bridge Building Competition by NUST Science Society

Runner up

2010

National Bank of Pakistan

Secured Interest free loan on merit to finance my undergraduate degree

2009

8th Class Board ExaminationGot 4th position in District Gujranwala

2004

SELECTED ACADEMIC PROJECTS**AT KAIST**

- **Dynamic analysis of a 2 DOF bridge structure** Fall 2013
Course Project, Experimental Vibration Engineering
- **Collapse analysis of reinforced concrete beam-column structures** 2014 - 2015
MS thesis

AT NUST

- **Analysis and design of earthquake resistant building using SAP2000** Fall 2012
Course Project, Earthquake Engineering
- **Design and analysis of reinforced concrete bridge superstructure** 2011 – 2012
BE thesis

VOLUNTEER ACTIVITIES

- Coordinator (NUST Community Service Club) 2011 – 2012
- Mentor (International Scholar and Students Services at KAIST) 2013 – 2014
- Member of KAIST International Students Association (KISA) 2014 – 2015
- Youth for peace (organized “Sports Gala” for children in SOS villages) 2012

- Supported Pakistan Red Crescent Society (PRCS) blood donation drive during undergraduate at NUST, Pakistan 2011
- Raised funds for relief of flood victims during 2010 in Pakistan (Received appreciation certificate for my efforts by NUST Community Service Club) 2010
- Mentoring my juniors from NUST regarding job, higher education and career. Currently, NUST has two campuses for Civil Engineering. They started their second campus in 2008 at Islamabad, Pakistan. We were the pioneers of Civil Engineering. I created a group on facebook named “Ask from 2008 batch (NICE Students)” to guide my juniors in a better way. They are benefiting from it. Our group is getting stronger as more and more batches are passing and new batches are coming. 2012-Present

SOFTWARE SKILLS

- Finite Element Analysis Program (FEAP)
- LS Dyna
- SAP2000
- Etabs
- STAAD Pro
- SAFE
- Concise Beam
- Quick Retaining Wall
- MATLAB
- Python
- Gnuplot
- Adobe Illustrator
- AutoCAD
- Opensees
- Endnote and Mendley
- MS office

MEMBERSHIPS

- Pakistan Engineering Council (Registration no. CIVIL/32972)
- Pakistan Engineering Congress
- International Association of Protective Structures
- American Society of Civil Engineers
- American Concrete Institute
- Institute of Engineers Pakistan

WORKSHOPS AND TRAININGS ATTENDED

- Attended **British Council’s active citizen stage** – 01 program organized by Youth for Peace at National University of Science and Technology, Islamabad Pakistan (Feb, 2012)
- Attended workshop on “**Construction Industry in Pakistan (Issues and Practices)**” organized by National University of Science and Technology (NUST), Pakistan (Jul, 2010)
- Attended “**Advanced Microsoft Excel Course**” offered by NUST Science Society (May, 2012)
- Attended international workshop on “**Education for Managing Hydrological Extremes and**

Related Geo-Hazards” organized by NUST and United Nations Education, Scientific and Cultural organization (UNESCO) (Jan, 2011)

- Attended “**Structural Analysis Program SAP2000 course**” offered by Pakistan Engineering Congress (Aug, 2011)
- Attended special lecture on “**Structural Retrofitting and Strengthening by Application of Carbon Fiber-reinforced Polymer (CFRP)**” organized by Structural Analysis and Materials Research Laboratory, KAIST (Oct, 2015)
- Attended special lecture on “**Cloud Computing Services for lifecycle bridge monitoring**” by **Prof. Kincho Law** (Professor of Civil and Environmental Engineering at Stanford University, USA) (Apr, 2015)
- Attended a certified online course “**Programming for Everybody (Python) from University of Michigan**” by Prof. Charles Severance (May, 2015)
- Attended ICE Qatar Learned Event on “**Managing Risk on Major Infrastructure Projects in Qatar**” by Paul Prescott (Legal Director) at Pinsent Masons, Doha, Qatar

LANGUAGE PROFICIENCY

Proficiency in written and spoken English and Urdu languages.

RESEARCH INTERESTS

- Finite element modeling
- Performance evaluation of Composites
- Progressive collapse analysis
- Earthquake engineering
- Protective structures
- Modeling of structures subjected to extreme loads such as blast and impact loads
- Concrete structures
- Strengthening of structures using FRP
- Structural health monitoring
- Bridge engineering
- Fire safety engineering

HOBBIES

- Playing cricket and badminton
- Hiking, cycling, and gym
- Table tennis, and Football
- Book reading

REFERENCES

- **Dr. Syed Ali Rizwan**

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- **Dr. Hamza Farooq Gabriel**

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- **Dr. Hyung-Jo Jung**

Professor

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