

# Sida Hussain

House# 27-A street 52 Sector F-6/4, Islamabad | |M: 03336335543 |

[sedahussain@uetpeshawar.edu.pk](mailto:sedahussain@uetpeshawar.edu.pk)

## SUMMARY

Currently working as a Laboratory Engineer in the Department of Civil Engineering of UET Peshawar, Pakistan (<http://www.uetpeshawar.edu.pk/faccivp.php>). I am basically a civil engineer with a bachelor's degree in the field of Civil Engineering from the "University of Engineering and Technology", Peshawar, Pakistan. I have also recently completed my master's in the area of Earthquake Engineering (2016-2019). My master's thesis was titled as, "Seismic Performance of Reinforced Concrete Frames Retrofitted with Steel Haunches". The focus of my research was to reduce the seismic vulnerability of existing RC frames with weaker beam-column joints. This retrofitting technique comprised of installation of a metallic steel haunch element at the beam-column connections, to stiffen connections and alters damage mechanism from joint hinging to beam yielding.

## SKILLS

- Structural Modelling in Seismostruct
- 2D/3D drafting in AutoCAD/Sketch up.
- Structural detailing and Designing in Extended three dimensional analysis of building software (ETABS)
- Microsoft Word, MS Excel , Power Point
- Analysis and Design in Structural Analysis Program (SAP)

## EXPERIENCE (2018- Present)

### Laboratory Engineer

**University of Engineering & Technology – Peshawar Pakistan**

Have been serving department of Civil engineering at the University Engineering and technology as a laboratory engineer of "Concrete technology Lab". A well-equipped lab ensures issuance of new equipment from time to time, discarding old appliances if any. Repairing defected apparatus. Ensuring calibration of every equipment.

### Assistant to Coordinator

I am also working as assistant to the semester Coordinator which includes dealing with official notifications relevant to various administrative bodies, managing Civil engineering department online in formation web page, handling issues related to student results.

(2016-2018)

**Laboratory Engineer**  
**Sarhad university of Science & information Technology** – Peshawar, Pakistan  
Served as a laboratory Engineer in Engineering Material/concrete Technology Lab. Worked for welfare of Laboratory/Upgradation of Lab.

**EDUCATION**  
(2016-2019)

**M.Sc. Earthquake Engineering**  
**University of Engineering & Technology-** Peshawar, Pakistan  
GPA: 3.25/4.00

**Major Courses Attended:**

- Advanced Concrete Technology
- Engineering Geology/ Seismology
- Repairing/Strengthening of structures
- Dynamics of Structures
- Experimental Mechanics of Structures
- Bridge Engineering
- Design & Construction of RC/Masonry Structures

(2011-2015)

**B.Sc. Civil Engineering**  
**University of Engineering & Technology-** Peshawar, Pakistan  
GPA: 3.01/4.00

**Major Courses Attended:**

- Concrete Technology
- Engineering Mechanics
- Mechanics of Solids
- Mechanics of Solids-II
- Structural analysis
- Reinforced Concrete Design
- Steel structures
- Introduction to Structural dynamics

## RESEARCH

M.Sc. Research  
(2017-2019)

Thesis titled, **“Seismic Performance of Reinforced Concrete Frames retrofitted with steel haunches”**. Research supervised by: Dr. Naveed Ahmad, (P.E) PhD (EE, Pavia ITALY), MSc (EEES, Grenoble FRANCE & Pavia ITALY), BSc (CE, Peshawar PAK).  
Contact: Cell: +92 - 334 – 0592787, E-Mail: (<http://drnaveedahmad.weebly.com/>)

B.Sc. Research  
(2014-2015)

Thesis titled, **“Feasibility Assessment of Code designed Reinforced Concrete Special Moment Resisting Frames”**. Supervised by: Dr. Naveed Ahmad.

## CURRENT PROJECT

(2019)

**“Development of Ground Motion Prediction Equations for Pakistan”**

**Project Summary:**

In this research we propose to collect the strong motion data from various stations installed by different national and international agencies in and around Pakistan. The data will then be used to derive ground motion prediction equation-a research first of its in kind in Pakistan.

, Supervised by:

Prof.Dr. Irshad Ahmad, Professor at the department of Civil Engineering, UET,Peshwar (<http://www.uetpeshawar.edu.pk/faccivp.php>)

OTHER  
TRAININGS  
(2017)

- Worked as Research assistant regarding a case study in Panjab province on a numerical study titled, “Seismic hazard assessment”.

(2016)

- Worked as Research assistant under the supervision of Dr. Naveed Ahmad at Earthquake Engineering Center, Department of Civil engineering, UET Peshawar on a Project titled, "Earthquake Hazard Assessment & Microzonation".

(2015)

- Worked as internee in Provincial Disaster Management Authority (PDMA), Provincial Reconstruction, Rehabilitation & Settlement Authority (PaRRSA) on a project titled, "Critical Investigation of recently constructed RC structures in Khyber Pakhtunkhwa & Azad Jammu & Kashmir".

(2014)

- Completed a course of various field tests in surveying including plain/hilly profile surveying, the use of theodolites, total station and developing contour maps for the site, manually. Training comprised of getting hands on all essential tools used at field in surveying course. Field tests were conducted at Abbottabad.

EXTRAS

- Remained part of a number of student societies and indulged in organization of extra-curricular and co-curricular activities on campus.
- Painting (Oil/acrylic/water )
- Sketching (Pencil, ink, charcoal, blow pens)
- Digital Painting (Autodesk Sketchbook app, Kaleidoscope, Spawn HD)