Hiba Haider Zaidi

Civil Engineer

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Strong academic background with a keen desire to work in an academic environment and with a vision to promote the interaction between the academia and industry.

Enthusiastic Civil Engineer eager to contribute to team success through hard work, attention to detail and good organizational skills.

Clear understanding of design and analysis of structures. Motivated to learn, grow and excel in Construction Industry.

Education

2019 - 2022
M.E. (Structural Engineering)
NED University of Engineering & Technology

2013 - 2017
B.E (Civil Engineering)
NED University of Engineering & Technology
Graduated with 3.345 GPA

2011 - 2013
H.S.S.C (Pre-Engineering)
B.A.M.M P.E.C.H.S. College for Women

2009 – 2011
S.S.C (Science)
Al-Muhammad School System

Potential Publications

- Behaviour of Lightweight Foamed Cementitious Composite (FCC) incorporating pumice aggregate for sustainable construction. (in preparation)
- Experimental Characterisation of Concrete-TRM Interface. (in preparation)

Academic Work Experience

Mar 2023 – Present
Lecturer – Civil Engineering Department
NED University of Engineering & Technology
- Teaching course work in the domain of Engineering Surveying.
- Teaching labs in the domain of Structural Engineering.

Sep 2021 – Sep 2022
Graduate Research Assistant
NED University of Engineering & Technology
- Assisted in the activities of the Center for Affordable Housing and Sustainable Built Environment (CAHSBE) at NED University, Karachi for which Chair Prof. Dr. Shuaib Ahmad is the Chairman.
- Assisted in the activities of the National Platform for Housing Research (NPHR) for which Chair Prof. Dr. Shuaib Ahmad is the Vice Chairman. This platform has 29 affiliated universities.

- Worked as Graduate Research Assistant under the supervision of Chair Prof. Dr. Shuaib Ahmad.
- Completed Master's Thesis research on development of Foamed Cementitious Composite Blocks with density about 65 pcf for partition walls.
- Contributed mentoring support to undergraduate students in their Final Year Project (FYP) working on mechanical and durability properties of FCC in their casting and testing.
- Assisted in the construction of "Model Home using the HSS Technology" at NEDUET through the Center for Affordable Housing and Sustainable Built Environment (CAHSBE) at NED University, Karachi.
- Organized conference as a Coordinator and Member of Organizing Committee, "Use of Fly Ash in Civil Infrastructure", which was organized by the Center for Affordable Housing and Sustainable Built Environment (CAHSBE) at NED University, Karachi Pakistan, April 2, 2022.

ME - Thesis

Development of Foamed Cementitious Composite (FCC) Blocks.

The FCC Blocks developed in this study for use as Non-Load Bearing Blocks have density of about 65 pcf which less than half of the density of Conventional Blocks i.e. 144 pcf. The advantage is lighter weight partition walls, thus reducing the overall weight of the building, resulting in savings in foundations.

BE - Final Year Project

Determination of mechanical properties of Textile Reinforced Mortar (TRM) using two different mortars (BASF and Tyfo C-Matrix).

The results concluded that tensile strength, pullout, strength and flexural strength of BASF mortar was greater than Tyfo C-Matrix by 61%, 41% and 12% respectively.

Software

- AutoCAD • ETABS
- Revit
- Microsoft Office (Word, Excel)

Industrial Experience

- Served Project Management Society as a member of Research and Planning team.
- Worked as an active member of marketing team of Construction Engineering and Management Group Student Body.

May 2016 - June 2016

Internship

Paragon Constructors (Pvt.) Ltd.

- Worked as an intern at OPAL TOWER under the supervision of Paragon Constructors (Pvt.) Ltd