



BARIK RIAZ

Structural Engineer (B.E., M.Tech.)

An enthusiastic young structural engineer, seeking a career that helps me improve my skills & knowledge to grow along with the organization's objective.



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EDUCATION

Master of Technology | M.Tech (Structural Engineering)

Amity University

2019 - 2021

Noida, India | Score - 8.48 CGPA

- Structural Dynamics
- Design of Bridges
- Advanced Design of Steel Structures
- Earthquake Resistant Design of Structures
- Advanced Design of RCC Structures
- Finite Element Methods

Bachelor of Engineering | B.E (Civil Engineering)

09/2012 - 09/2016

Belegavi, India | Score - 75.56%

- Structural Analysis
- Strength of Materials
- Cost Estimation Techniques
- Design and Drawing of RCC and Steel Structures
- Geotechnical Engineering
- Design of Pre-Stressed Concrete

WORK EXPERIENCE

Industrial- Research Intern

Vardhan Consulting Engineers

06/2020 - 07/2020

Patna, India

Achievements/Tasks

- Completed various projects which involving tasks on energy analysis and green building rating system
- Worked on Cost to benefit analysis of Green Building concepts in India

Contact: Ashish S Kumar | CEO & Lead Consultant - ashish@techvardhan.com | +66-972-151-276

Civil Site Engineer

Fujairah National Construction and Transport LLC

05/2017 - 08/2018

Fujairah, United Arab Emirates

Achievements/Tasks

- Completed infrastructure projects such as Multi parking building project for an International hospital in Fujairah, United Arab Emirates.
- Completed residential and commercial projects including 12 Villas residential project
- Provided technical support to other site team members and resolve technical issues with Client and internal department staff
- Coordinated with main contractor, consultant, and client, as necessary for construction site work progress.

Contact: Mr Gilbert Jon Vaz | Human Resources - +971-506-909-282

SKILLS



MAJOR PROJECTS

- Performance of Seismically Retrofitted Soft Storey In Reinforced Concrete Frames (07/2020 - 11/2020)
 - Seismic strengthening of building at soft storey using different bracing systems.
 - Structural behavior study by performing Push Over Analysis on the building.
 - 2D-RC frames were used to create infill wall in upper floors and soft-storey at base.
 - Usage of Bracing systems led to increase in stability and ductility of building.
- Seismic Assessment on Optimal Positioning of Shear Walls in Multi-Storied Mid-Rise Buildings (12/2019 - 06/2020)
 - Shear wall behavioral study of a mid-rise RC building with respect to different locations
 - The effect of shear-wall curtailment was also studied to determine optimal best suited position in the RC building system.
- Effect of Different Sizes of Coarse aggregates on M70 grade of Self-Compacting Concrete (SCC). (01/2016 - 06/2016)
 - Experimental Study to determine the best suited coarse aggregate for SCC M70 grade involving partial replacement of cement with GGBFS

MEMBERSHIPS & AFFILIATIONS

(NISEE-PEER) Pacific Earthquake Engineering Research University of California, Berkeley | Student Member (04/2020 - Present)

American Society of Civil Engineers (ASCE) | Student Member (04/2020 - Present)

Society of Engineers–United Arab Emirates | Affiliated Member (04/2017 - 04/2018)

CONFERENCES & CERTIFICATES

Presented paper on "Recent advances in application of digitally fabricated concreting in self compacting concrete" in an international conference "Sustainable Energy Systems – SES 2020" at Saint Petersburg, Russia. Preprint available on Google Scholar/Microsoft Academic (10/2020 - Present)

Building in Professional Design | AutoCAD, ETABS, Revit (09/2016 - Present)

Non-Linear Analysis & FRP for Efficient Seismic Retrofit | ASCE (04/2020 - Present)

Seismic Evaluation of Existing Buildings Using ASCE 41-13 | ASCE (12/2020 - Present)

International English Language Testing System (IELTS) (12/2018 - 12/2020)

CEFR Level - C1 | Overall Band Score - 7