

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

Bachelor of Engineering | B.E (Civil Engineering)

Visvesvaraya Technological University

09/2012 - 09/2016

Belegavi, India | Score - 75.56%

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

ETABS

SAP 2000

STAAD Pro

CSI DETAIL

ANSYS

CSI SAFE

REVIT Structure

Microsoft Excel

Revit MEP

AutoCAD

Seismic Retrofitting

Performance Based Design

MAJOR PROJECTS

1. 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.

2. 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.

3. 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