SHREY RANA

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ACADEMICS

New York University, Tandon School of Engineering, Brooklyn, NY

Master of Science in Civil Engineering.

GPA: 3.89

Merit Scholarship, \$9000.

Relevant Course: Structural Dynamics, Bridge Engineering, Project Management for Construction

Birla Vishvakarma Mahavidyalaya, Gujarat, India

July 2018 - May 2022

Bachelor of Technology in Civil Engineering,

GPA: 4.00.

Relevant Course: Mechanics of Solids, Structural Analysis, Earthquake Engineering, Repair and Rehabilitation of Structures.

PROFESSIONAL EXPERIENCE

Engineering Intern, RKC Infrabuilt, Daman, India

February 2021 - July 2021

- Assisted project manager in construction of jetty and sea wall as a part of the coastal line beautification in Daman.
- Studied civil drawings to effectively manage the site. Assisted in pile placing at the jetty and maintained daily logs of materials.
- Gained exposure in the waterfront site and labor management which developed leadership and problem-solving skills.

Engineering Intern, Shanti Construction, Daman, India

July 2021 – August 2021

- Supervised a construction team of 10 in the construction of shear wall at 500 bedded hospital in Daman.
- Ensured construction was completed on schedule and meet the compliance of Indian Standards.
- Gained valuable experience working in the field and studying the structural and architectural drawings.

Engineering Intern, Vijay Mistry Construction Pvt.Ltd, Daman, India

November 2020 – January 2021

- Assisted site engineer on a precast segmental post-tensioned bridge project in Daman.
- Studied structural drawings to overlook the reinforcement process of pier cap and abutments.
- Developed basic understanding of post-tensioned bridge structural design and drawings.

ACADEMIC PROJECTS

STUDY ON THE PERFORMANCE OF COVID WASTE IN CONSTRUCTION COMPONENTS. 8th Semester 2022

- Studied the material properties and designed mix for M25 concrete with Biomedical waste to utilize the waste being disposed off.
- The designed mix achieved a compressive strength 20% higher than the nominal M25 concrete with no waste in it.
- Received grant of Rs. 100,000 from State government and requests for R&D by Industry professionals.

STRUCTURAL DYNAMIC ANALYSIS AND RETROFITING OF SQUIBB PARK PEDESTRIAN BRIDGE. Fall 2022

- Carried out dynamic analysis of the original structure facing serviceability issue to determine acceleration response.
- Retrofitting methods with detailed analysis were suggested based on acceleration response to resolve serviceability issue.
- Developed the skill set to conduct the dynamic analysis and calculations of various retrofitting methods proposed.

STRUCTURAL DESIGN OF 500 FEET BRIDGE IN ACCORDANCE WITH LRFD TO CARRY VEHICULAR LOAD. Fall 2022

- Designed structural components like Concrete Deck and Prestressed girder for serviceability following AASHTO LRFD Bridge Design specifications.
- Carried out quantity take off to compare the cost differences for the two alternatives designed i.e., Concrete and Steel.
- Developed the skillset to design the structural members with the aide of Excel and Bridge Link.

SKILLS

MS Excel, MS Word, AutoCAD, AutoCAD Civil 3D, STAAD Pro, QGIS.

HONORS & AWARDS

- Gold medal for the highest CGPA in Civil Department at Birla Vishvakarma Mahavidyalaya.
- Silver Medal for second highest CGPA at Birla Vishvakarma Mahavidyalaya.
- Gold Medal for the highest grade in Fluid Mechanics at Birla Vishvakarma Mahavidyalaya.
- Felicitated with Gold medal by Gujarat Institute of Civil Engineers and Architecture.
- Head of Tech & Tour in IE(I) students' chapter civil.

September 2022- May 2024