

NIRAJ R SHINDE

ADDRESS: 5/99, Santacruz Police Line, Santacruz West, Linking Road, Opp. Juhu Garden, Mumbai, M-400054

MOBILE: +91 8291467282 • **E-MAIL:** niraj.psd22225@cept.ac.in • **LinkedIn:** [Niraj R Shinde Linked in profile](#)

SUMMARY

Interested in designing diverse structures, **good problem-solving skills**. Experienced in designing **Stone structures, RCC structures, Steel structures, RCC flyover**. Well versed with **Wind, Seismic** and all the **essential load** calculations as per relevant **National and International** codes. Want to apply my expertise and grow my knowledge in an appropriate way and make my concerned **project successful**.

INTERNSHIP/ EXPERIENCE

Pedanekar and Associates, Mumbai, Maharashtra

Job Title: - Junior Design Engineer (1.5 months i.e. (6 weeks)).

Worked for ongoing projects like,

- RPG Industrial Plant building (consist of both steel and RCC), (Analysis, Design, Detail)
- Medical College and Residential buildings, (Analysis, Design, Detail)
- Corbel Design and Detailing of Malabar Project, (Mumbai)
- Proof Checking, all design and detailing were done according to the IS Code provisions, got exposure to learn the traditional as well as new design trends in construction.

Vrushali Swayanrojgaar Seva/Udyog Sahakari Sanstha Limited, Kolkewadi Chiplun (Maharashtra).

Job Title: - Trainee Site Engineer (1.5 months i.e. (6 weeks)).

- Worked as a site engineer, checking the quality of work, planning the day's work at site, and estimating quantity of material.
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EDUCATION

Masters in Structural Engineering and Design (2022- 2024) * Currently Pursuing

CEPT University | C. G. P. A. – 4.00 / 5.00

Bachelor of Civil Engineering (2018-2022)

Thakur College of Engineering and Technology | Mumbai University | C. G. P. A. – 9.26 / 10.00

Board – 12th (2018)

The New Sarvajanic Education Society's Junior College of Science | Percentage – 78.92%

Board – 10th (2016)

St. Lawrence High School | Percentage – 88.40%

SOFTWARE SKILLS

- Structural drawings and Rebar detailing in **AutoCAD**
 - 3D view and rendered images of structure in **Google Sketchup**
 - Report, PPT Documentation and design calculation Excel using **Microsoft Office**
 - Design model, load application, design parameters for concrete and steel structure in **ETABS and Staad Pro**
 - Material and Service requisition, technical specification and quantity take-offs using **Excel, ETABS and Staad Pro**
 - 3D Model and its rendered view using **Rhinoceros**, parametric model using **Grasshopper** and its design, load application and design parameters using **Karamba**
 - Rebar design and detailing using, Foundation design using **RCDC**
 - Steel connection design using **Microsoft Excel, Ideastatica**
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AREA OF INTERES

- Structure Design and Analysis
- Conceptual study
- Excel in new software's
- Restore Historic Structures
- Studying International Codes (US/ British/ Euro etc.)

PRIME ACADEMIC PROJECTS

Project Title: Plantation Using Waste Water by mechanism of Hydroponics (2021-22)

I have designed an efficiently working slow sand filter installed with Phytoid technology of detoxifying water in order to transform sullage water into a clear and nontoxic water, and use of same water for hydroponics i.e., soilless farming our group has also received recognition for our project on institute level.

Project Title: - Sports Complex "A Complete Stone Marvel" (2022)

The project involved designing a Sports complex using primary material as stone. The structural elements were designed by keeping in mind the compressive nature of stone.

[CEPT Portfolio Sem-1](#)

Project Title: - Chenab River Bridge (Jammu and Kashmir) (2022)

Designing the Chenab Bridge using Grasshopper tool in Rhinoceros and learning behaviour of parametric structure was main activity involved in this project. The structure was then further analysed for dead load in Rhino using Karamba tool, and its results were studied accordingly.

Project Title: - Designing an arch roof for an underground auditorium (Gaya) (2023)

Designing a vault shaped roof using steel as a primary material, considering all the parameters of dead load as per IS875 (Part 1), live load as per IS875 (Part 2) and wind load as per IS875 (Part 3), and designing it in accordance with the load combination mentioned in IS800 using Staad-pro software.

Project Title: - Designing G+10 Residential Apartment on Sloping Ground (2023)

The building is a residential project situated on a sloping ground. The land slope is in one direction. The assignment was to understand how this kind of building behaves under gravity as well as lateral loads. To resolve the system and also comply with the requirements of IS 1893, IS 456 and IS 13920 fulfilling all the criteria stated in the code and arrive at an appropriate design with proper structural ductile detailing. [CEPT Portfolio Sem-2](#)

Project Title: - Design of Distillation Plant (2023)

To design a G+4 distillation plant building mainly a staging structure. The applicable codes were used while computing the wind, seismic or other loads. Spreadsheets and STAAD Pro software were used for load calculations as well as member and connection design. Vital parts of the project involved the space truss design, member design, connection design and its thorough detailing. [CEPT Portfolio Sem-3](#)

Project Title: - Design of Two-Lane Bridge (2024)

The project is to design a two-lane flyover, using RCC T girder, with open foundation, the objective of the project is to study the structural elements of bridge, load calculations and design of typical members with respect to relevant IRC codes, and the final assignment is to detail the sections properly.

**ACADEMIC
ACHIEVEMENTS**

- Specialization in Construction Management (**Coursera**)
 - Mastering Bitumen (**Coursera**)
 - **Multicon-W** Paper Presentation (Piezoelectricity a boon to renewable energy resources)
 - Study of Structural Analysis (**Autodesk**)
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**PROFESSIONAL
SKILLS**

- Believe in Team Work
 - Communication Skills
 - Leadership Skills
 - Listening Skills
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**Extracurricular
Activities**

- Played Cricket at University Level
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**PERSONAL
DETAILS**

Date of Birth: 2nd October 2000
Languages: English | Hindi | Marathi
Nationality: Indian

DECLARATION

I hereby declare that the above-mentioned details in this resume are true, complete and correct to the best of my knowledge and belief.

PLACE: Mumbai, Maharashtra

Niraj Rajendra Shinde