

VINAY SONI

STRUCTURAL ENGINEER

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📍 Ahmedabad, Gujarat

EDUCATION

Master of Technology in Structural Engineering

Indus University, Ahmedabad

(July 2018 – June 2020)

- CGPA : 9.43
- Relevant coursework: *advanced design of reinforced concrete structures, advanced design of steel structures, advanced structural analysis, structural dynamics, finite element analysis, tall structures*

Bachelor of Engineering in Civil Engineering

Silver Oak College of Engineering and Technology, GTU

(July 2013 – May 2017)

- CGPA : 8.35

PROFESSIONAL EXPERIENCE

Intern

Diagrid Consultants

(26th Feb 2021 – Present)

- Analysis and design of continuous and L-shaped retaining wall using STAAD.Pro
- Modelling of residential buildings using ETABS
- Designed pad footing and prepared foundation layout
- Prepared and checked column schedule in AutoCAD
- Designed combined foundations using SAFE
- Reviewed ETABS models and performed corrections
- Prepared quantity take off for piles, pile caps and columns

ACADEMIC PROJECTS

Analysis and Modelling of Laminated Composites

(July 2019 – June 2020)

- Simply supported laminated composites subjected to transverse distributed load, axial load and sinusoidal load analysed in ABAQUS software
- Free vibration analysis of laminated composites carried out using ABAQUS
- Results provided by FEM formulations compared with analytical solutions

Design of Industrial Steel Structure with Roof Truss

(Jan 2019 – May 2019)

- Analysis and design of industrial steel structure with roof truss using STAAD.Pro
- Structure was subjected to dead load, live load and wind load (as per IS 875 (Part 1 to 3))
- Designed roof truss, purlin, rafters, tie, struts, side runner and wind bracing using IS 800:2007

Design of Residential Building

(July 2018 – Dec 2018)

- Design and analysis of 10 storey RCC residential building using STAAD.Pro
- Dead load, live load and earthquake load (IS 1893:2016) were applied to the building
- Structural design carried out manually with reference to IS 456:2000 and reinforcement details provided using IS 13920 and SP 34

TECHNICAL SKILLS

- ETABS | STAAD.Pro | AutoCAD | ABAQUS | SAFE | MATLAB | Microsoft Office (Excel, Word, PowerPoint) | LaTeX

ACTIVITIES

- Presented models of Outrigger structural system and Helix bridge in Civil Exhibition
- 1st prize in Aircraft hangar competition