

SAFWAN SHAIKH

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SUMMARY

I am very hardworking. Very Conscious About learning latest trends in structural fields. To gain more knowledge about structural design and looking forward to actual practice where we can apply the theories in real world. Proficient in AutoCAD, ETABS, and STAAD.Pro software. Skilled in applying engineering principles to solve problems.

INTERNSHIP

Hi-Tech Projects Private Limited, Ahmedabad.

Junior engineer (3 Months; January 2022 to March 2022).

The work is related to site engineer. I did office work regarding design of structure. The work I did is basically like, related to type of designs, like in my site we had pt beams and slabs. Then after design inspection like work to be done as per designs, like checking of whole design of beam, slab, and columns.

Ami Engineers, Ahmedabad

Jr. Structural Engineer (2 Month; May 2023 to July 2023).

This internship's responsibility was to design and detailing of structural elements like Slab, Beams & Columns. The scope also included quantity estimation for the same. The Structures Like, Residential, Commercial. Use of software like ETABS & STAAD.

EDUCATION

Masters in Structural Engineering design (2022- 2024)

CEPT University | Sem I G. P. A. – 2.70 / 5.00 | Sem II G. P. A – 3.20 / 5.00 | Sem III G. P. A – 3.20 / 5.00 | Sem IV G. P. A – 5.00 / 5.00

Bachelor of Civil Engineering (2019-2022)

L.J Institute of engineering and technology | Gujarat Technological University | C. G. P. A. – 9.53/ 10.00

Diploma in Civil Engineering (2016-2019)

L.J Polytechnic Ahmedabad | Gujarat Technological University | C.G.P.A- 8.97/10.00

GSSEB– 10th (2016)

R.M Trivedi New Education High School | Percentage – 68.67 %

SOFTWARE SKILLS

- AutoCAD (Intermediate)
 - Staad.Pro (Intermediate)
 - Rhino (Intermediate)
 - Sketchup (Beginner)
 - C++ (Intermediate)
 - Etabs (Intermediate)
 - Microsoft office (Intermediate)
 - Safe (Beginner)
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AREA OF INTEREST

- Structural design
 - Sustainable structures
 - Concrete structures
 - Structural Analysis
 - Timber Structures
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**PRIME
ACADEMIC PROJECTS**

1.Strengthening of industrial building (2024): The case study of the Gujarat Ginning Mill Compound involves evaluating the structural behavior of the building. It begins with a visual inspection of various components such as the steel roof truss and masonry walls. After completing the visual inspection, damages are observed along with their causes. Many types of damage are identified, including material degradation, biological growth, and cracks in the structure. After that non-linear pushover was performed to check the seismic demand of the structure. Strengthening works have been proposed to increase the seismic demand of the structure.

2.Design of industrial shed (2023): In our project, we had to design an industrial shed with different capacities of cranes running on each bay. We understood how the behaviour of steel members, such as rafters, columns, gantry girders, and bracings, was analysed and designed with governing cases and connection detailing. A significant difference was observed between the column-supported crane and the bracket-supported crane. In the column-supported model, we found a higher weight in terms of kg/m². Larger crane capacity will lead to more size of members.

2. G+8 Flat Slab With Shear Wall (2023): Flat slab design of G+8 Commercial building having zone 4.es. Flat slab with shear walls is a reinforced concrete structural system that combines the advantages of flat slab construction with the additional lateral resistance provided by shear walls. Shear walls are introduced along the perimeter or within the building to provide additional stiffness and strength against lateral loads such as wind or earthquake forces. Thickness of the slab are all critical factors in the design of a flat slab with shear walls. Design, completed with SAFE 20 software.

3. Emergency shelter using Timber (2022): The focus of the course was to understand the properties of different materials and their limitations in actual practice. Using timber as the primary material. Form exploration and development are the first steps in the project. After finalizing the form design, we then analysed and designed the structure for wind load, dead load, and live load as per the latest Indian Standard codes. An initial parametric study is also done between the portal frame and truss system.

4. Low-cost roofing tiles using agricultural waste (2021): Next project created by me is providing low-cost roof tiles using agricultural waste. This benefited to reuse wastage from agriculture. By Providing sustainable roofing tiles.

**PROFESSIONAL
SKILLS**

- Team Work
- Collaboration
- Management skills
- Communication Skills

**PERSONAL
DETAILS**

Date of Birth: 14th November 2000
Languages: English | Hindi | Gujarati
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: Ahmedabad, Gujarat

(Shaikh Mohammad Safwan)