

REHAN RIYAZ DESAI

Mobile No: +971503071497

E-mail: rehandesai34@gmail.com



Career Objective:

Seeking an opportunity for advancement as a **Civil Structural Engineer** in a growth oriented organization where I can utilize my intellectual, planning and designing skills in construction and contribute towards success of organization.

Profile Summary:

Structural Engineer having **2 years of experience in structural analysis, design and drawing review**. Performed linear and non-linear static analysis and linear dynamic analysis in ETABS software. Performed structural design and structural calculations. Proven track record in reviewing RCC and steel shop drawings. Top performer in academics. Proficient in mathematics and profound of statistics. Having strong technical background and relevant software skills. Highly motivated and goal driven individual. Result oriented engineer having the ability to meet deadlines.

Education:

Walchand College of Engineering-A Government Aided Autonomous Institute (Shivaji University), Sangli, Maharashtra, India.

Master of Technology-Structural Engineering, August 2017-July 2019

Aggregate- **9.36/10**

Rizvi College of Engineering (University of Mumbai), Mumbai, Maharashtra, India.

Bachelor of Engineering-Civil Engineering, August 2012- August 2016

Aggregate- **8.38/10**

Maharashtra State Board (G.N. Khalsa College), Mumbai, Maharashtra, India.

HSC (XIIth), May 2012

Aggregate- **82.00%**

Maharashtra State Board (LTT English Medium School), Khed, Maharashtra, India.

SSC (Xth), June 2010

Aggregate- **91.82%**

Experience:

1. Engineer at Thornton Tomasetti (US Based MNC), Mumbai, India.

Period: 25th November 2019 to 11th May 2021

Area of working: **Structural Analysis and Design, Drawing review.**

Role in the company:

1. Developed familiarity by understanding and applying departmental design guides and applicable US codes to complete project assignments.
2. Performed analysis and design of beams of RC building using software 'SP Beam'. Performed design of RC columns using excel sheets. Checked safety of beams and slabs against sleeves or openings using software 'RAM concept'.
3. Reviewed Shop drawings and Calculation packages of high rise buildings requiring knowledge and application of basic engineering principles.
4. Reviewed Shop drawings of RCC members prepared by the contractor. Reviewed Calculation packages of steel connections and Shop drawings of steel members.
5. Prepared basic engineering calculations following standard methods and principles used in engineering analysis and design of structural members.
6. Envisioned building plans and sections in 'Revit' software in order to gather critical building information and use the same to complete project assignments.
7. Liaised with designers and clients, attended meetings and coordinated with various teams to meet on-time delivery of projects, health and safety guidelines.
8. Contributed to effectively prepare engineering deliverables of international projects by focussing on the needs and interests of US based clients.

2. **Graduate Engineer Trainee at Epicons Consultants Pvt Ltd, Thane, India.**

Period: 7th August 2018 to 2nd April 2019

Area of working: **Various types of analyses, design.**

Role in the company:

1. Performed Structural analysis and design of G+12 duplex building and ensured its safety against gravity and earthquake loads using software 'ETABS 2016'.
2. Performed Normal Static and Seismic Analysis, Response Spectrum Analysis, P-Delta Analysis, Pushover Analysis and of various building systems using software 'ETABS 2016'.
3. Performed Construction Sequence Analysis of tall buildings having composite concrete filled tube columns subjected to sequential gravity loading using 'Midas Gen' software.
4. Performed Finite Element Analysis on stone block masonry building using software 'SAP 2000'. Performed calculations of stresses on all areas of building. Ensured safety of building against pressures and stresses.

3. **Site Engineer at Sanmit Infra Limited, Mumbai.**

Period: 30th March 2017 to 20th June 2017

Area of working: **RCC Construction**

Role in the company:

1. Performed Quantity Estimation to identify requirement of materials.
2. Prepared Bar Bending Schedule.
3. Performed On site investigations and carried out Site Surveying.
4. Verified reinforcements of members as per Structural drawings.
5. Executed project according to drawings and specifications.
6. Prepared reports regarding the work in progress.

Professional Attributes:

- Effective communication skills

- Strong professional ethics
- High grasping power
- Strong analytical skills
- Ability to take initiative
- Excellent team player
- Problem solving and Innovation

Technical Expertise:

- **Strength of Materials, Structural Analysis, Structural Design, Structural Dynamics, Earthquake Resistant Design, Foundation Design, Finite Element Analysis, etc.**
 - **US standards: ACI-318-19**-Building code requirements for Structural Concrete, **ASCE 7-10**-Seismic loads, **14th Edition AISC-2010**-Steel manual, **AISC 360-2010**-Structural steel specifications.
 - **Indian standards: IS 456:2000**-RCC Design, **IS 1893:2016**-Earthquake resistant design, **IS 13920:2016**-Ductile Detailing, **IS 800:2007**-General Construction in Steel.
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Software Skills:

- **ETABS:** Linear and Non-linear Static and Dynamic Analyses of Buildings, Design of Buildings.
 - **STAAD.Pro:** Linear Static and Dynamic Analyses, Design of Buildings.
 - **Midas Gen:** Construction Sequence Analysis of Tall Buildings
 - **SP Beam:** Design of Beams
 - **AutoCAD and Revit:** 2D and 3D respectively
 - **Bluebeam Revu:** Review of Shop Drawings
 - **Microsoft Office:** Word, Excel, Power-point.
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Projects:

- BE Project: “Improving **Engineering Properties** of Soil with the use of **Admixtures**”.
 - FY M. Tech Mini Project: “**Static and Dynamic Analysis** of 10 Story Symmetric Hotel Building”.
 - SY M. Tech Dissertation: “**Construction Sequence Analysis** of Tall Buildings (80-120 stories) having **Composite Concrete Filled Tube (CFT) Columns**”. **AISC 360-2010**-Composite Concrete Filled Tube Columns (CFT).
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Extra-Curricular Activities:

- Participated in 2-day workshop on ‘**Performance Based Design (PBD)**’ in Earthquake Engineering by ‘Epicons friends of concrete’ in Mumbai, India.
 - Participated in 3-day workshop on ‘**SACS software-Offshore structures**’ by IIT-Chennai, India.
 - Participated in 2-day workshop on ‘**Research Methodology**’ in Sangli, India.
 - Participated in 2-day workshop on ‘**Project Management**’ by ‘Project Management Institute-Pune’, India.
 - Bestowed with ‘**Best speech award**’ at workshop held on Project Management.
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Personal Details:

Gender : Male
 Date of birth : 12/10/1994
 Nationality : Indian
 Marital Status : Married

Address : Dubai, UAE.
Visa Status : 3 months visit visa valid till 25 January 2022.
Languages : English, Hindi, Urdu and Marathi.
Hobbies : Learning new Software, Playing Cricket, Doing social activities.

Declaration:

I hereby declare that whatever information is furnished above is true to the best of my knowledge and belief.

Date:

Place: Dubai

Signature