

# YASH PATEL

Mobile: +91- 8200041399

Email: [yashpatel581995@gmail.com](mailto:yashpatel581995@gmail.com)

LinkedIn: [linkedin.com/in/yash-patel-2a1805158/](https://www.linkedin.com/in/yash-patel-2a1805158/)

Skype: live:8777c37c21069a76

Address: A202, Sapna Park, Desaiwad, Khadkibhagda, Valsad , Gujarat

## Career Objective

To work in organization that gives a great platform to learn as well as where I can prove my ability by imparting skills with loyalty. As Post graduate with depth of technical knowledge and standards in addition with relevant software skills, keen to establish career in field of Structure Design,

## Educational Background

<b>M.TECH. Structural Engineering</b>	<b>2019</b>
Vellore Institute Of Technology, Chennai with 9.13 CGPA	
<b>B.E. Civil Engineering</b>	<b>2016</b>
Government Engineering College, Valsad, Gujarat Technological University with 8.63 CGPA	
<b>HSC</b>	<b>2012</b>
Sett R. J.J. High School Tithal Road, Valsad, Gujarat Secondary and Higher Secondary Education Board with 69.4%	
<b>SSC</b>	<b>2010</b>
Sett R. J.J. High School Tithal Road, Valsad, Gujarat Secondary and Higher Secondary Education Board with 84.92%	

## Skills

### Software

- ETABS
- SAFE
- STAAD Pro
- STAAD RCDC
- SAP-2000
- Auto-CAD

## Professional Experience

<b>July 2019-October 2020</b>	<b>Graduate Structural Engineer</b>	<b>RECI Engineering Pvt. Ltd., Mumbai</b>
<b>Duties Performed</b>		
<b><u>A. Dynamix PG Malad, Mumbai</u></b>		
<ul style="list-style-type: none"><li>• Working out different foundation options and finalising layout, depths of raft and Modelling in Safe for residential type building structure at schematic stage followed by checks.</li><li>• Identifying areas of non Tower foundation subjected to uplift water pressure due to High Level of Ground water.</li><li>• Carrying out the non linear analysis for raft of Tower.</li></ul>		
<b><u>B. Residential Towers of Sona Property, Kalpataru, Mumbai</u></b>		
<ul style="list-style-type: none"><li>• Modelled of structures with different possibilities and arrangements then analysed 41 Storeys towers using static method and dynamic method as per IS1893 and IS16700-Code for tall structures and submit for HRC with proper documentation.</li><li>• Check out the wall and link beam stresses using modifiers for minimum steel requirements, also to check percentage requirement of steel in column.</li><li>• To check serviceability as per latest codes. I.e. maximum sway and storey drift for lateral loads, mass irregularity, stiffness irregularity, torsion irregularity.</li><li>• Design of shear wall with and without boundary elements considering ductile details codal provisions.</li></ul>		

### **C. Residential Project: City of Joy, Mumbai**

- Responsible to do modelling and analysis using seismic coefficient method and response spectrum according to IS1893 of RCC building for 38 Storeys Building with Structural walls and Frame system in Etabs for concept stage.
- To check and understand behaviour of Structure in Service and strength by using Code for Tall structures IS16700.
- Working out different framing systems, they were RC walls with beams only, RC walls at core and Columns are required locations with beams.
- To prepare concept report showing all data and results.

### **D. Simplex Mahalaxmi, Thane**

- It is Commercial office Building of 10 Storeys.
- Responsible for preparing beams and slab schedule as per design criteria by Indian standard.

### **E. Marsa Al Arab, UAE**

- Ramp and Tunnel connecting Ground level to basement having soil retaining about 8m height at top of tunnel near basement connecting.
- Calculations of Loads possibly acting on structure.
- Capturing the behaviour various sections of structure using Staad-Pro. Finalizing the thicknesses required for structure at different levels and locations as Ground water table height is different for different locations.

### **F. Proof Checking of Subhashnagar- A residential Project, Thane**

- Project is of residential buildings, Two Sales Buildings and Three rehab buildings designed by JW consultants. Client Shapoorji Pallonji Group wanted detailed review of structure for recent codal provisions.
- Checking of stresses in walls and beams. Checking of raft foundation and detailing.
- Checking of wall reinforcements, Beams and slab reinforcements.

**July 2018-February 2019**

**Trainee Engineer**

**VMS Engineering & Design Pvt. Ltd,  
Ahmedabad**

### **Duties Performed**

#### **A. Pelican Rotoflex Pvt. Ltd.**

- Responsible to do modelling and analysis using seismic coefficient method according to IS1893 of RCC building for Electrical Substation
- Design of foundation using excel design sheet and Staad RCDC using IS Standards, Checking of Structural drawing
- Releasing of Column Schedule and Detailing of beams floor wise according to IS:13920 (2016)

#### **B. VoltBek Home Appliances Pvt. Ltd.**

- Modelling of Administrative Building in ETABS and analysis using Response Spectrum Method.
- Design of under reamed pile and pile group.
- Design of Truck entrance facility using Staad-Pro.

#### **C. Arista Logispace.**

- Analysis and Design of RCC Drivers room using ETABS with Pile Design.

#### **D. Zanini Auto Group.**

- Modelling and analysis of pump house using Staad-Pro with underground water tanks using IS:3370 (part IV) 1967
- Design of Tanks from moment values found after application of Hydrostatic Pressure.

#### **E. JBM Auto.**

- Design of Pedestals for Fabrication plant Steel PEB Structure using STAAD Pro
- Bill of Quantities for steel Structures

<b>May 2015 Summer Internship</b>	<b>Site Engineer</b>	<b>IRIS Sky Bungalows, Valsad</b>
<b>Duties Performed:</b>		
<ul style="list-style-type: none"> <li>• Design of beam and slabs using manual technique</li> <li>• Estimates of Steel, Concrete and Brick work</li> <li>• Understanding of various drawings</li> <li>• Assisted during execution of work</li> </ul>		

## Academic Projects

### M.Tech.

- **Analysis and Comparison between Diagrid and Conventional Tall Structure Using Time History Method**

G+36 Storey Steel Structure has been considered and modelled using ETABS for both the system and analysed using time history method with Bhuj 2001 Earthquake and static wind load. Comparison is done by considering modal time period, top storey displacement and Storey Drift. Moreover, Lateral and gravity load distribution is derived.

- **Influence of Orientation of Shear Walls on Structural Behaviour of RC Buildings**

Three Models with Shear wall placed at different positions those are at corners, at centre of Peripheral grid and as core for rectangular plan. Study is completed with use of Seismic coefficient method in ETABS.

- **Analysis and Design of Industrial truss Building.**

Steel truss warehouse like structure is modelled in Staad Pro. Analysis and design of purlins, truss elements are carried out using IS:800-2007

- **Behaviour of Canopy subjected to Wind Load.**

Pressure calculation not available in IS:875 (part 3) 2015 for complex structures like canopy for wind load on two different directions is found out using Computational Flow Dynamics in ANSYS Workbench.

### B.E.

- **Development of Auranga Riverfront at Hanuman-bhagda Near Valsad.**

Proposed Plan for riverfront with necessary facilities required for recreations. Detailed chain survey has been carried out to get levels and Design of retaining wall.

## Accomplishment

- Presented a paper on 'Behavior of Canopy subjected to wind load' in 13th National Conference of Science, Engineering and Technology (NCSET 2017)
- Won The Best Paper Award for Semester Project Entitled ' Behavior of Canopy subjected to wind load'
- Meritorious Award for 3<sup>rd</sup> Rank in Post graduation in Structural Engineering Branch
- Runner up in TRUSS-A-THON2018, 24 hour competition for designing and building a lightweight Steel truss
- Certificate from GEC VALSAD For Participated in 'Creat'o' INFINIUM 2K16
- Certificate from Ministry Of Human Resource Development For Completion of Course for AUTOCAD

## Additional Information

- Quick learner and Great team player
- Ability to learn from Experience
- Good explanation ability
- Hard working