

# Nitesh Patel

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## Objective:

Motivated Professional with 2+ years of experience as Design engineer. Independent employee with high energy and great communication skills. Reliable and friendly professional able to work as a key player in challenging and creative environment.

## Academic Qualifications:

| Degree/Exam     | Institute/Univ./Board                   | Year | Performance |
|-----------------|---|------|-------------|
| M.Tech          | VIT University Vellore                  | 2017 | 7.8 (CGPA)  |
| BE (Mechanical) | Acropolis Institute of Technology /RGPV | 2013 | 67.00%      |

## Professional Experience:

### B M Techno Machines Pvt Ltd Dec 2017 ~ Feb 2019

**Role** Design Engineer

**Summary** Involved in Design and 3D modeling overhead crane and storage rake.

#### Key Learnings

- ✓ Involved in Design of Overhead crane Components ,Marble processing machine Components and storage rake by using solidworks.
- ✓ Design as per ASME safety requirements for overhead crane an gantry cranes.
- ✓ Continuous engagement with production team regarding process flow and product specification requirement.
- ✓ Coordinated with automation team members for technical and domain knowledge.

### Spruce Up Industries Sept 2016 ~July 2017

**Project** Design and analysis of contact less street vacuum Cleaner.

**Role** CAE Engineer

**Summary** Involved in design and analysis of contact less street vacuum cleaner.

#### Key Learnings

- ✓ Analysis of pressure variation and air flow from start to end by using ansys tool
- ✓ CFD Analysis of Fan and Casing Assembly.
- ✓ Coordinated with team members for technical and domain knowledge
- ✓ Experienced end to end cycle product cycle from design to manufacturing

### Spraytech India Pvt Ltd, Mumbai June 2013- Aug 2016

**Project** High to Low Pressure Spray nozzle

**Role** Design Engineer

#### Responsibilities

- ✓ Design of spray nozzle and 3D Modeling in Solidworks
- ✓ Learned to work on use cases independently.
- ✓ Learned to understand complex designs and to coordinate the same with project lead.
- ✓ Involved in all facets of product Manufacturing processes

### Technical Skills:

- ✓ Proficient in Design Calculation, Strength of Material
- ✓ Tool Expertise : **AutoCad,Solidworks,Hypermesh,Ansys,MS Excel,MS Word**

### Academics Projects Undertaken

#### Post-graduation Projects:

##### Study Progressive failure analysis of laminated composite plate

- ✓ The ply-by-ply analysis progresses until the ultimate strength of the laminate is reached
- ✓ The results in terms of first-ply failure load obtained in the present investigation compared with those available in published literature. A parametric study has been done on the progressive failure analysis
- ✓ Tools used: ANSYS (APDL), four nodes SHELL181 elements.

##### Study of vibrational analysis of banana reinforced hybrid polymer matrix

- ✓ This work describes the vibrational behaviour of prepared composite consist of banana as reinforcement in thermal environment.
- ✓ Tools used: TAGUCHI method, hot air oven, ANOVA technique.

### Academic achievements and activities

- ✓ Published a review paper in IJAREST on CFD analysis of fan and casing for street vacuum cleaner.
- ✓ Participated in workshop on advance manufacturing technology
- ✓ Participated in five day training programme on CFD and structural Analysis using ANSYS
- ✓ Participated in Entrepreneurship Development and Research program.
- ✓ Certificate of Appreciation in 12th International Conference On Science, Engineering and Technology (ICSET 2016)
- ✓ Qualified GATE 2015

### Extra-curricular activities

- ✓ Second Position in swimming competition at district level.
- ✓ Hobby - swimming, acting and volley ball
- ✓ Coordinator for intra college "gully cricket" held at Armagedon'12.
- ✓ Member of disciplinary committee in Bachelor's degree 2009- 2013

### Personal Details:

|                 |   |                |
|-----------------|---|----------------|
| Date of Birth   | : | 08-10-1990     |
| Nationality     | : | Indian         |
| Gender          | : | Male           |
| Languages Known | : | English, Hindi |
| Passport        | : | Available      |

I, hereby, declare that all the information given above is correct to the best of my knowledge.

Date: 27/02/2021  
Place: Dewas

**Nitesh Patel**