

## Overview

The passion within, led to build a career in the field of mechanical engineering in **5 years of work experience** as well as to accomplish each and every task/responsibility within a specific time bound commitment and under pressure. A highly efficient, hardworking & talented young design engineer within always resulted being a learner at every stage to adapt/implement new innovative techniques, also refreshing one-self by keeping updated about the innovations has resulted in being a strong professional with a working experience with 3D CAD modeling and Layout of mechanical systems.

## Technical Skills

- CAD Modeling & 2D Drafting
- Design Optimization
- Geometric Dimensioning and Tolerance (GD & T)
- New Product Development
- Work on Layout and Elevation.
- Ability to work **independent** as well as a **team player** in multiple projects.
- Good communication and problem-solving ability.
- Siemens NX
- PTC Creo
- AutoCAD

## Professional Experience



### DESIGN MECHANICAL ENGINEER

JULY 2018 - JULY 2020

SPACE APPLICATION CENTRE, ISRO (Through Ambimat Electronics)

- *Involved and Worked with Communication and Navigation Integration Division (CNID) which functions to design, develop, assembly and integration of communication and navigation-based satellite missions using Siemens Nx software.*
- Formulating and Developing payloads for spacecraft including North, South, Earth Viewing (EV), Anti Earth Viewing (AEV) panels in Software. The challenges faced were Optimization of Mechanical part interaction with panel to panel routing of waveguides various bands **with due consideration of fabrication, surface treatment and thermal plating.**
- **Sheet Metal Bracket Design** for electronic subsystems and payload related components and Co-ordinate with **design, fabrication, integration and quality control teams to ensure the design** meets all requirements as well as electromechanical integration goal.
- Responsible to preparing mechanical design and design review.
- Work on AutoCAD for Layout of panel and verify with heat pipe layout.
- Work on fabrication drawing to manufacture parts.
- Work on detailed Assembly file and BOM (Bill of Material).
- Work to complete designs within the schedule and minimum weight for the project **cost reduction.**
- Involved in multiple Satellite projects like GSAT-11, GSAT-20, GSAT-29, GSAT-30, GSAT-12R Payloads.

## Professional Experience

### **DESIGN MECHANICAL ENGINEER**

**InspirOn Engineering Private Limited**

- Design & Development of new fundamental concepts of food processing machines (poultry) as per the customer requirement.
- Discussion on the product and process improvements with European based customer. Conversion of 2D to 3D & vice versa according to customer given standards.
- New product development.
- Technical Data Management in PLM.
- Part modeling and Drafting.

## Education

<b>Bachelor of Engineering, Mechanical Engineering</b>	JUNE 2019
Gujarat Technological University	<b>CGPA : 6.16</b>
<b>Post Diploma in Tool Design &amp; CAD / CAM, Mechanical</b>	JULY 2015
Indo German Tool Room-Ahmedabad	<b>Percentage : 68%</b>
<b>Diploma Engineering, Mechanical Engineering</b>	JUNE 2014
Gujarat Technological University	<b>CGPA : 7.87</b>
<b>S.S.C. (Secondary School Certificate)</b>	MAY 2011
G.S.E.B.	<b>Percentage: 80%</b>

## Achievements

- Selected as best project for Environment is ***PUBLISHED IN DIVYA BHASKR NEWS PAPER- Ahmedabad (25June 2014)*** under project entitled “**CYCLO CLEAN WATER PURIFIER**” during the academic session of Diploma Mechanical Engineering.
- Worked on the innovative project in which **WASTE HEAT RECOVERY SYSTEM FOR REFRIGERATOR** was carried out for basic design of project for using CAD software. **This work was published in International Journal of Advance Research and Innovative Ideas in Education of (IJARIIE VOL 05 issue 2)**

## Personal Details

Date of Birth : 11 May 1996  
 Sex : Male  
 Nationality : Indian  
 Marital Status : Married  
 Languages : English, Gujarati, Hindi, Marathi

## **Declaration**

I hereby declare that the information provided above is accurate & correct as per best of my knowledge & concern. For any incorrect or illegal information I will be responsible & answerable.

Date:

Yours Faithfully

(Sachin A Narnavre)

### **Reference**

- **Mr. V P Shingadiya** **(GROUP DIRECTOR)**  
Space Application Centre  
**Indian Space Research Organisation, Ahmedabad.**  
**Contact No: 079 2691 8347 / 8318 (Office)**

### **Reference**

- **Mr. Dipak Chopda (Engineer)**  
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