

# Malhar Goriyawada

8780116493 | goriyawadadhaval.mm@gmail.com | Ahmedabad, Gujarat

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## Experience

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### PCB Planet | Gandhinagar, Gujarat

#### Front End Engineer | 09/2024 - Present

As a **Front-End Engineer (CAM Work)** in PCB manufacturing, my role revolves around processing and optimizing PCB design data to ensure smooth fabrication. I work extensively with **CAM software** to analyze and modify PCB layouts, ensuring they comply with manufacturing and assembly requirements. My responsibilities include checking for **design rule violations (DRC)** and performing **DFM (Design for Manufacturability) and DFA (Design for Assembly) analysis** to enhance production efficiency and prevent potential issues during fabrication.

A crucial part of my work is **panelization**, where I optimize PCB layouts to maximize material utilization and reduce manufacturing costs. I also ensure the proper placement of **fiducials, tooling holes, and alignment marks** to facilitate accurate fabrication and assembly. Collaboration with fabrication, assembly, and quality teams is essential in my role, as I work closely with them to address production challenges and ensure that the final PCB designs meet the highest industry standards.

Beyond processing PCB data, I contribute to continuous **process improvements in CAM workflows**, maintaining documentation and refining design strategies to enhance manufacturing efficiency. My expertise in **PCB manufacturing processes, CAM tools, and design constraints** allows me to deliver high-quality, production-ready PCB data that meets both customer and fabrication requirements.

## Skills

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Communication skills, Computer literacy, Time management, English, Microsoft word, Leadership, Documentation review, Physical examinations, Electrical, Analysis Skills

## Education

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### Pandit Deendayal Energy University | Gandhinagar, Gujarat

#### Btech in Electrical Engineering | 05/2024

During my Btech i have done some training and Major projects, you'll find the description below:

**Brief of Industrial Training:** During my industrial training at Gandhinagar Thermal Power Station, Gujarat State

Electricity Corporation Limited, I gained practical experience in thermal power generation. I worked alongside engineers and technicians, assisting in the maintenance and troubleshooting of boilers, turbines, and generators.

This training provided insights into the entire power generation process and reinforced the importance of safety protocols and environmental regulations. Overall, it was a valuable experience that bridged the gap between theoretical knowledge and real-world application.

About my Major Project in Final Year of my Btech:

#### **PV-Battery Integration With Three-Phase Grid (Simulink) ( Duration January 2024 - May 2024 )**

The project is carried out in the software named MATLAB/SIMULINK. In this software the whole three-phase grid with PV and Battery is designed. Three-phase inverter is used to control the power flow of the system and for dc-ac or ac-dc conversion of power (integration of PV to the grid). Complex control algorithms are used to extract the load current from the harmonic component.

Therefore, using load current extraction method the system's THD is reduced and better control is achieved.

Skills used - MATLAB, MATLAB Simulink, Matlab Programmer, Inverter, dc-dc converter, Three Phase, Grid Systems