




PREM MISTRY

STUDENT

Enthusiastic Electronics and Communication student with a keen interest in Embedded and Hardware Designing. Excited to apply practical knowledge and contribute to organizations' dynamic and innovative environment. Eager to learn, grow, and make a positive impact on the organization.

Anand, Gujarat, India 

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EDUCATION

A. D. Patel Institute of Technology, Anand

Bachelor's Degree in Electronics and Communication
2020 - Present

Shri J. P. Thakkar High School, Anand

HSC - Higher Secondary Education
2019-2020

Shri J. P. Thakkar High School, Anand

SSC - Secondary Education
2017-2018

SKILLS

- Printed Circuit Board (PCB) Designing
- Schematic Designing
- Python , C , C++ , VHDL
- Internet of Things
- Application Development
- UI/UX Designing
- Website Development

CERTIFICATIONS

- Computer Vision with Embedded Machine Learning - Edge Impulse
- VLSI SoC Design using Verilog HDL - Maven Silicon
- VLSI System on Chip Design - Maven Silicon
- Python - GUVI Geek Networks, IITM Research Park

ACTIVITIES

- SUPRA SAEINDIA Student Formula - 2023**
 - Played a key role in building the SUPRA car from scratch with a focus on automotive electronics.
 - Led the implementation of electronic components,
 - Collaborated with team members to integrate electronics seamlessly into the car's overall design.
- CVM University Hackathon - 2023**
 - Developed a solution for medication adherence using a Smart Pill Box.
- Maker Fest - 2023** - Represented different innovative projects made by team.
- CVMU GYANOTSAV - 2023**
- DD ROBOCON - 2022** - Had role of electronics connection in robot
- Electronics Wings Project Challenge - 2022**
 - Made a IoT controlled smart RGB bulb and selected under Top 50.
- Azadi ka Amrit Mahotsav Hackathon - 2022**
- Smart India Hackathon - 2022**
 - Proposed and built solution for safety of Coal Miners.

WORK EXPERIENCE

Training and Placement Coordinator

A. D. Patel Institute of Technology | **FEB 2023 - Present**

- Managing the essential database of students for placement
- Coordinating and managing placement drives

Design Committee Member

A. D. Patel Institute of Technology | **AUG 2020 - MAR 2022**

- Designed post and poster for social media and other events
- Organised workshop

NSS Student Volunteer

A. D. Patel Institute of Technology | **2020 - 2022**

Project Developer Intern

SMS FOR YOU | **MAY - JUN 2023**

- As a project engineer I have developed a QR Code based box office ticketing management system. By using IoT devices and cloud technology the system automates the scanning of QR codes to track and manage data. The system optimizes queue operations, leading to efficiency in event ticket booking and checking.

PROJECTS

Audio Control Dashboard

Audio Control Application is user friendly tool developed for audio processing the goal is to filter out the unwanted part from audio either it could be recorded file or from some other source where noise is present in audio.

Night Vision Based Human Detection

Developed a system that can detect humans in both well-lit and low-light environments using digital image processing and trained deep learning algorithm and implemented a GUI based interface.

Soli Grow

A Smart assistive pot which can monitor the stats of pot like soil moisture, sunlight levels, temperature and humidity which is displayed through the mobile application which is developed that combines embedded system and IOT.

Design of 7 Segment Decoder

The Decoder Circuit Designed using Logic Gates with K-Map Simplification of Expressions. The pinouts of 7-Segment Display Truth Table were prepared and midterms are simplified with minimum expression required to print the Number from 0 – 9. And implemented the designed circuit on a designed PCB with the hardware components.

Aura Smart

Designed and developed a Smart IoT RGB Bulb with an intuitive mobile application interface for wireless control from anywhere through IoT technology.