

SMITSINH BARAD

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EDUCATION

Dr. S. & S. S. Ghandhy College Of Engineering & Technology, surat
Bachelor Of Electronics And Communication ; CGPA: 7.43

Surat, Gujarat.
February 2021 - Till Date

SKILLS SUMMARY

- **Technical Skills :** PCB Design, Embedded System, IOT
- **Soft Skills :** Adaptability, Attention to Detail, Time Management, Communication.
- **Platform :** Arduino IDE, Energia, EDA playground, KiCad.

PROJECTS

Smart Switch Module for Home Automation

- Developed a smart switch using ESP32-D2WD microcontroller for home automation.
- Designed to fit standard wall switch dimensions for easy replacement.
- Utilized ESP32's inbuilt touch pin to control relay for seamless operation.
- Created two PCBs: one for the relay module and another for the power supply.
- Ensured efficient, safe performance with optimized component selection.

5-Channel Relay Module PCB Development

- Designed and developed a PCB from scratch for a 5-channel relay module with proper isolation for safe operation.
- Created a second PCB dedicated to troubleshooting and indicating the status of each relay (on/off).
- Ensured reliable performance and fault detection through clear status indicators for each relay.

Real-Time Web-Based Chat Application

- Developed a real-time chat application where users can log in and send messages to each other via WebSockets.
- Set up the backend using Node.js and Express.js, handling WebSocket connections for message broadcasting.
- Integrated front-end functionality with HTML, CSS, and JavaScript for user interface and chat features.
- Deployed the application on the Heroku platform for live access.
- **Completed the entire project, including code and basic installation, with guidance and code generated through ChatGPT interactions.**

Certificates

Finishing School Certificate

- Developed advanced communication skills for effective interpersonal interactions.
- Improved time management and organizational skills for productivity.
- Developed leadership and team-building skills to drive group performance.