

Mandaji SaiKumar

Seasoned Hardware Engineer | Expert in Technical Collaboration and PCB Design | Skilled in System Testing and Compliance

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Hyderabad


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Profiles

-  [mandaji-saikumar](#)

 [Portfolio](#)

Summary

I'm an engineer who's really good at designing circuit boards and leading teams. I'm great at understanding what customers want, making sure projects follow the rules, and fixing any problems that come up. I specialize in working with tiny computer systems, connecting different devices, using sensors and actuators, and making sure everything can communicate with each other. I've led a bunch of successful projects and helped teach others along the way.

Experience

Niltech pvt.ltd

2020 - Present

IOT DEVELOPER

- Facilitated technical collaboration between cross-functional teams and clients to refine hardware system design and firmware for IoT applications.
- Utilized various microcontrollers and IOT modules to develop cutting-edge products.
- Developed PCB designs to improve system reliability.
- Led design reviews and created system test plans to ensure regulatory compliance, employing simulation tools like LTspice and lab tools such as oscilloscopes, multimeters, and signal generators for validation.
- Here are some projects from my list: "Smart Home Guardian," "BeetleGuard," and "Smart pay phone."

HCL Services Ltd

2016

System Engineer

- Conducted computer testing and processed data with precision.
- Utilized MS Project, Excel, and Word for thorough data processing, analysis, and documentation.

Education

Guru Nanak college of engineering

2016-2019

ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech

Jyothishmathi Institute Of Technology

2013-2016

ELECTRONICS AND COMMUNICATION ENGINEERING

Diploma

Projects

BeetleGuard

BeetleGuard integrates IoT and LoRa technologies to monitor and optimize beetle grove environments. It focuses on tracking temperature and humidity levels to control the beetle door intelligently.

IoT, LoRa, Beetle Grove, Environment Monitoring, Temperature, Humidity, Sustainability, Agriculture

Skills

Programming:

C, C++, Python, MicroPython, HTML CSS and JavaScript.

PCB Design:

Orcad, KiCad, Altium, and EasyEDA Pro.

Embedded Systems & IoT Protocols:

UART, CAN, SPI, I2C, Xbee, Bluetooth, Wi-Fi, and HTTP.

Hardware Tools:

oscilloscopes, multimeters, and signal generators.

Other Tools:

LTspice, EasyEDA and PuTTY

Languages

English

Telugu

Hindi