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Ganesh Punjaji Dake

Embedded Engineer | R&D | Embedded Software/Hardware
Nanded, Maharashtra, India

Summary

I am Focused Embedded engineer, aiming to leverage proven communication, creative thinking, with excellent problem-solving skills and ability to perform well in a team. Passionate about coding with a willingness to learn new technologies and take up roles that help develop my skills and expand my network. Frequently praised as adaptable by my peers, I can be relied upon to help your company achieve its goal.

Experience

Linepro Controls Pvt. Ltd.
Embedded Engineer
August 2023 - Present (1 year)
Thane, Maharashtra, India

Selec Controls Pvt. Ltd.
Embedded Design intern
January 2023 - June 2023 (6 months)
Navi Mumbai, Maharashtra, India

Education

Yeshwantrao Chavan College of Engineering Nagpur
Bachelor of Engineering - BE, Electronics and telecommunication ·
(June 2019 - June 2023)

Late Nalge Highschool, Loha, Nanded.
10th

NES Science College Nanded
12th, Science

Skills

Software:

- Embedded C.
- Esp32, Cy8c4246azi.
- UART, I2C, SPI, RS232/RS485.
- Arduino IDE, Psoc Creator.

Hardware:

- **Power Conversion:** AC-DC, DC-DC, Buck, Boost conversion circuits
- **Altium, LT Spice.**
- **Power Components:** Diode, MOSFET, IGBT Driver Circuits.
- Basics of **EMI/EMC**.

Projects:

1) VFD (Variable Frequency Drive) (Internship)

- Power Circuit Design and testing of VFD.
- SW stimulations of VFD

2) Precision Actuation Systems for Hospital/Lux Beds.

A) Microcontroller Logic Based:

- a. Developed a control system using **Microcontroller** to manage four actuators for bed position adjustments.
- b. Created firmware supporting multiple inputs (**Bluetooth, IR remote**) for user convenience.

B) Hardware-Logic Based:

- a. Designed a relay-based control system with analog circuits and custom PCBs for compact and robust operation.
- b. Focused on power management, including protection circuits.