

BOYA VEERESH

Embedded Software Engineer

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Professional Summary

Embedded Software Engineer with 1+ year of hands-on experience in firmware development. Skilled in C, Embedded C, communication protocols and microcontroller programming. Strong foundation in embedded project development, system debugging. Quick learner with a passion for innovative technology and problem-solving.

Technical Skills

- **Languages:** C, Embedded C, C++, Data Structures & Algorithms.
 - **Operating Systems:** Linux, Windows.
 - **Microcontrollers:** LPC2148, LKS32MC05X.
 - **Protocols:** UART, SPI, I2C, CAN.
 - **Tools & IDEs:** Keil uVision, JTAG/SWD, ST-Link, DAVE IDE, Tinkercad.
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Professional Experience

Embedded Firmware Engineer

Bhagyashree Industries, Hyderabad

Dec 2024 – Present

- Developed embedded applications for BLDC fan systems with CCT lighting.
- Implemented PWM logic and LED-CCT blending for efficient lighting control.
- Integrated IR and RF remote-control functionalities.
- Conducted system validation and firmware debugging.

Intern – Junior Lab Coordinator

Vector India, Hyderabad

Oct 2023 – Mar 2024

- Assisted in embedded training modules and lab coordination.
 - Supported development and testing of embedded prototypes.
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Projects

1. BLDC Fan with CCT (Correlated Colour Temperature)

- Controlled fan RPM and LED temperature via remote.
- Configured GPIO-based PWM for adjustable lighting.
- Developed firmware for speed profiles and LED interfacing.

2. BLDC Pedestal Fan with CCT

- UART-based communication between boards.
- Integrated remote-controlled motor speed and 7-segment display.

3. IoT-Based Irrigation and Monitoring System

- Automated pump control using real-time sensor data.
 - Cloud integration using Thingspeak for monitoring and analytics.
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Education :

B.Tech in Electrical & Electronics Engineering

Santhiram Engineering College

Jul 2019 – Nov 2022

Diploma in Electrical & Electronics Engineering

ESC Govt Polytechnic College

Aug 2015 – May 2018

Secondary School Certificate (SSC)

ZPHS, Kambadahal

Apr 2015

Certifications :

- Advanced Embedded Systems – Vector India
- Linux Bootcamp