

Yasasri K

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PROFESSIONAL TRAINING

Vector India Pvt.Ltd

Embedded Systems

- Comprehensive training in Embedded Systems & Firmware Development
- Hands-on experience with:
- Embedded C programming
- Microcontrollers (ARM7, 8051)
- Communication protocols (SPI, UART, I2C, CAN)
- Exposure to tools like Keil, Proteus, and Linux (Ubuntu)

EDUCATION

Sri Vasavi Engineering College

B. Tech-Electronics and Communication ENGINEERING
Tadepalligudem, Andhra Pradesh

CGPA: 7.57 | Grad:2023

Sri Chaitanya Jr. College

MPC - 2019
Bhimavaram,
Andhra Pradesh
PERCENTAGE:9.23

Z.P.P High school

SSC - 2016
Bhimavaram,
Andhra Pradesh
PERCENTAGE:9.23

SKILLS

LANGUAGES

Advance: C | Embedded C

Microcontrollers & Platforms

- ARM7 (LPC2468 | LPC4357 | LPC2129)
- ESP32
- 8051

Protocols

- UART, SPI, I2C, CAN.

TOOLS

- Keil, MPLAB, Ubuntu.

EXPERIENCE

BPL Medical Technologies | Firmware Engineer Intern

June 2025 -Currently Working | Bangalore, Karnataka

- Worked on **C-Arm system (Cray Pro Plus – FD variant) and X-ray system (H Rad 15)**
- Implemented **Auto Calibration in H Rad 15**, enabling:
 - Automatic exposure control
 - Automatic reference value configuration for each station
- Developed firmware logic for accurate exposure management, improving system consistency
- Implemented Pulse Mode in C-Arm, optimizing radiation delivery using pulsed exposures
- Designed Boost Mode, supporting:
 - 5-second and 10-second exposure modes
 - Enhanced imaging clarity for critical diagnostics
- Worked on Embedded C-based firmware development and hardware interfacing
- Used communication protocols: SPI, UART, I2C, CAN
- Performed debugging, testing, and validation on real-time embedded systems
- Gained hands-on experience in BOM (Bill of Materials) and hardware components

PROJECT

Employee Attendance System (RFID)

- Designed RFID-based system using UART communication for attendance tracking
- Developed firmware to read and process unique RFID tag data
- Automated attendance logging, reducing manual errors

Smart Irrigation System (ESP32)

- Developed an automated irrigation system using soil moisture sensor interfacing with ESP32
- Implemented threshold-based control logic in Embedded C to regulate water flow
- Improved water efficiency through real-time monitoring and automation

Automatic Room Lighting System

- Built a motion-based lighting system using IR/PIR sensors
- Achieved energy savings through efficient power utilization

COURSE WORK

- Embedded Systems
- Microcontrollers & Interfacing
- Digital Electronics
- Communication Systems

ACHIEVEMENTS & ACTIVITIES

- Completed Device Interfacing for Embedded Systems Design event
- Participated in ESPARX-2023 (Mini Project)
- Strong hands-on experience in firmware + hardware integration.