

# Isampalli Pallavi

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## Profile Summary

Embedded Software Development Engineer with 1.5 years of experience in embedded C programming. Experienced with serial communication protocols like I2C, SPI, and UART. Skilled in Linux OS and Different 8/16/32 bit Micro-controller (STM32, ESP32).

## Key Skills

- **Languages:** C, Embedded C.
- **Processors/MCU/SoC:** ESP32,ESP8266
- **Serial Protocols:** I2C, SPI, UART
- **Operating System:** Windows.
- **Development Tools:** StCube, Visual studio,ESP-IDF.
- **Debugging Tools:** Docklight.
- **Device Drivers:** CH340, CP2102.
- **Operating Systems:** Windows, Linux (Makefile creation, static & dynamic lib linking)

## Professional Experience

### Associate Software Engineer (Embedded Systems Developer)

**SPANIDEA Systems Pvt Ltd**

*June 2024 - Present*

- Developing and debugging embedded software for various projects
- Collaborating with cross-functional teams for system integration

### Engineer – Embedded (Embedded Systems Developer)

**PRESPI INTERACTIVE PVT LTD**

*November 2022 - May 2024*

- Developed and maintained embedded systems software
- Implemented communication protocols and interfaced with hardware components

## Academic Profile

- **B. Tech in Electrical & Electronics Engineering** .Kakatiya University College of Engineering and Technology , Warangal.  
70.65% | 2017-2021

- **Intermediate (Maths, Physics & Chemistry)** Sri Nalanda Jr. College,Kothagudem  
78.7% | 2015-2017
- **SSC** Pragathi Vidyalayam,Bhadrachalam  
GPA: 8.8 | 2015

## Projects Involved

### 1.Smart Home lights Monitoring.

**Languages/Platform** : C, Embedded C, ESP-IDF , Aridno-ide

**Interfaces** : UART, GPIO's, Wifi ,I2C.

**Protocols** : TCP, MQTT .

- light monitoring and control system with additional security using ESP32,with IP connectivity through local Wi-Fi for accessing and controlling devices by formal user remotely using android smart phone application

### 2. Smart Lock-box

**Languages/Platform** : C, Embedded C, ESP-IDF , Aridno-ide

**Interfaces** : UART, GPIO's,I2C.

**Micro-controller** : ESP32

- Creating a smart lock-box involves combining hardware components like a locking mechanism, sensors, and a microcontroller, along with firmware to control its operation and provide smart functionalities.Optionally, include components like a keypad.

## Strengths

- Quick learner
- Effective time management
- Self-confident and positive thinker
- Team player with strong work ethics
- Conceptual approach and logical thinking

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