

**P. Naga Malleswari**

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### CAREER OBJECTIVE:-

To work in a challenging environment, utilizing my skill, knowledge and expertise to the best of my abilities and contribute positively to my personal growth as well as growth of the organization.

### TECHNICAL EXPERTISE:

- Having Good Experience in **C, Embedded-C and Micro-Controllers**.
- Good experience in **Protocols, Interrupts, Timers, Counters**.
- Creative problem-solver who works hard and loves a challenge.
- Experience in Different **8/16/32 bit Micro controller (ARM 7, STM32, ESP32)**.
- Experience in Serial Communication Protocol Development like **UART, I2C, SPI, CAN**.
- Enthusiastic, knowledge-hungry, self-starter, eager to meet challenges and quickly assimilate Newest and latest technologies, skills, concepts, and ideas.
- Good analytical skills and flexible to learn new technologies in the IT industry towards company's success.
- Good understanding of **Oops concepts and Data Structure**.
- Knowledge on **ARM and 8051 microcontroller**.
- Having a basic knowledge of **Linux system programming**.
- Comfortable with real-time operating systems (**RTOS**).
- Knowledge of TCP with good understanding of network concepts.
- Expertise in creating and optimizing **C and C++ programs with the GCC compiler**.

### EDUCATION:

- **B.Tech ( ECE) :-** DJR College of Engineering and Technology in the year 2024 with aggregate of 63.31%.
- **Diploma (ECE):-** A.A.N.M& V.V.R.S.R Polytechnic College in the year 2015 with aggregate of 91%.
- **SSC:-** Jaihind Secondary School in the year of 2012 with aggregate of 87%

### TECHNICAL SKILLS:

<b>Programming Languages</b>	C, Embedded C, Data-Structures, C++.
<b>Operating System</b>	Linux.
<b>Application IDE</b>	Keil, STcubeIDE, ESP-IDF
<b>Communication Protocol</b>	I2C, SPI, UART, CAN.
<b>Debuggers Used</b>	ST-link, TTL.
<b>Micro-controllers</b>	ARM, STM32, ESP32, ESP8266.

## WORK EXPERIENCE:-

- Worked as an assembly operator in **Rising star mobile india private limited, Chittoor** (Oct 2019 to Sep 2021).
- Worked as a Soldering technician like Soldering Components, Assembling Components on PCB, chip mounting in **power technology, Rangareddy nagar** (Aug 2016 to Sep 2019).

## PROJECTS:-

### Project 1:- Smart Home System

**Development Tool :** Arduino IDE , ESP - IDF.

#### Description:

In this project low cost flexible and reliable home monitoring and control system with additional security using ESP8266 with through local Wi-Fi for accessing and controlling devices by formal user remotely using Android smart phone application. To demonstrate the effectiveness and feasibility of this system, in this we presents a Debugging system by using ESP8266.

#### Role and Responsibilities :

- Development of Application for the requirements
- Developing the **UART , MQTT and GPIOs** Configuration
- Developing an EEPROM for the external Memory.
- Documentation activities related to requirements and process
- Worked on Test Plan preparation and executing test cases.

### Project 2:- RFID Based Smart door Lock with Power Control for Hotel Rooms.

#### Description:

This system integrates Smart RFID technology to provide secure room access and energy management saving in hotel rooms. It allows guests to unlock their room doors and activate power inside using the same Smart RFID card Activates and deactivates room power supply

**Components Used:-** ESP32, M66, RC522 RFID Module, Solenoid Door Lock, Relay Module, Power Supply Unit.

#### Role and Responsibilities :

- Development of Application for the requirements
- Developing the **UART , I2C, SPI and GPIOs** Configuration
- Developing an EEPROM for the external Memory.
- Documentation activities related to requirements and process
- Worked on Test Plan preparation and executing test cases.

## DECLARATION:

I hereby declare that the information furnished above is true to the best of my knowledge.

Date:

Place:

**(P. Naga Malleswari)**