

**G.Vineetha**

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### Career objective

Seeking a position in a dynamic organization where I can launch my career and work towards building a strong skill set. A hard-working individual looking for a challenging position where I can showcase my skills and contribute to the growth of the organization.

### Educational details:

**B.Tech(EEE):-**Buchepalli Venkayamma Subbareddy Engineering College(2023) with 75.96%.

**INTERMEDIATE:-** MNM Junior college (2019),with 98 %

**SSC:-** ZP High School, Mohammadapuram(2017) with 95%

### Summary:

- 2.0+ Years of experience as an embedded firmware developer **PEEPAL SOFTWARE SOLUTIONS PVT LTD-Pune**
- Working experience in requirement Analysis and Development in Embedded Systems.
- Working experience in **Embedded C and C programming**.
- Good Knowledge on **FREE RTOS**.
- Experience in Different 8/16/32 bit Micro controller (STM3, ESP).
- Good experience in Micro-controllers in C, Embedded-C, basic on RTOS.
- Experience in serial communication protocol driver development, such as , **UART, I2C, CAN, MQTT, and SPI ,TCP-IP**.
- Good experience in Debugging, and performance analysis tools in Linux.
- Actively involved in troubleshooting platform-level hardware and software issues.
- Worked on Test Plan preparation and executing test cases.
- Familiar with the Make file and Compilation process.
- Worked on logging techniques of my test cases.
- Familiar with embedded systems and **Device Driver development**
- Good Knowledge on Debugging the code and tools
- 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.
- System Test and Functional Test Plan/ Test Strategy generation and execution.

### Experience Summary:

- Worked as Embedded Firmware Engineer with in **PEEPAL SOFTWARE SOLUTIONS PVT LTD-Pune (Jan2023-Till now)**

## Technical Skills:

**Programming Languages** : C, Embedded C.  
**Operating System** : Windows and linux.  
**Development Tools** : St-cube,Kiel.  
**Debugging Tools** : ST-Link, Dock-light  
**Communication Protocol** : SPI, I2C, UART, CAN,MQTT.  
**Flashing Tools** : STM32 ,ST-LINK UTILITY.

## Project Summary:

### Project-1:

**Project Name** : Intelligent Solar Panel Tracking System  
**ToolsUsed** :STCUBE-IDE  
**Microcontroller** : STM32,SIM800

### **Description :**

Designed and implemented a solar tracking system using STM32 micro-controller, photo-diodes, and motor drivers to dynamically adjust a solar panel's position for optimal sunlight absorption. The system processes light intensity from four photo-diodes (north, south, east, and west) and controls DC motors via PWM to position the panel. Integrated a GPRS module (SIM800L) for remote monitoring, sending hourly position data to a server for real-time tracking and maintenance, improving overall solar energy efficiency.

**Hardware Components:** STM32 microcontroller, photodiodes, Servo motor, GPRS module, solar panel.

**Development Tools:** STM32,CubeIDE,STlink Debugger.

## Declaration:

Here by declare that the particulars given above are true and faith to the best of my knowledge and belief.

**Date:**

**Place: Pune**

**(Vineetha)**

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