

# Joshana Puram

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## CAREER OBJECTIVE

Seeking a beginner level position in Embedded development where I can apply my skills and grow with continuous learning and practical experience.

## EDUCATION

- Completed a certified Training of Embedded AI Software developer at Kernel Masters Hyderabad.
- Pursuing **Masters of Technology** in Stream of Power Electronics at Gokaraju Rangaraju Institute of Engineering and Technology.
- Completed **Bachelor of Technology** in Stream of Electrical and Electronics Engineering year 2021 at Vignana Bharathi Institute of Technology with 6.76 CGPA.
- Completed **Diploma** in stream of Electrical and Electronics Engineering in the year 2018 at Viswa Bharathi Engineering College with 64.85%.

## SUMMARY

- Experience with STM32F401RBT6 microcontroller and ARM CORTEX M4 architecture.
- Experience on serial communications Protocols: UART, I2C.
- Experience on Hardware Debugging (SW debugger) using ST-link debugger.
- Knowledge on Data Structures.

## SKILLS

- Programming Languages: C, Embedded C.
- Inter process communication
- ARM Cortex M4 Processor
- STM32F401RBT6 microcontroller
- UART Protocol
- I2C Protocol
- SPI Protocol
- Linux

## PROJECTS

### SMART WEATHER MONITORING SYSTEM

- Objective: To read temperature data from an LM35 sensor and transmit it to a web server.
- Hardware: STM32F401RBT6, 16x2 Monochrome LCD
- Tools: Keil, Dock light, ST-Link Debugger

- Description: The system reads date and time from an RTC every second and temperature from an LM35 sensor every 5 seconds. The data is displayed on an LCD and sent to a server. If the internet is unavailable, data is stored in EEPROM.

#### **WOMEN SAFETY DETECTION SYSTEM**

- Objective: A women safety system using a microcontroller, GSM, and GPS modules for real-time location tracking and emergency alerts.
- Hardware: STM32F401RBT6, 16x2 Monochrome LCD, 4x4 Matrix Keypad, NEO 6M GPS, SIM800C GSM
- Tools: Keil, Dock light, ST-Link Debugger
- Description: The system enhances women's safety through real-time tracking and immediate emergency communication via GSM and GPS modules.

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.