

TAMMANA TARAK RAM

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CAREER OBJECTIVE

To secure a challenging role in Embedded Systems Developer in dynamic organization, where I can utilize my skills and knowledge in embedded systems development to contribute to the success of the company and enhance my professional growth.

SUMMARY

- Experience on source code version control tool GIT
 - Knowledge on Assembly level language.
 - Hands on experience with **STM32F401RBT6** microcontroller and **ARM CORTEX M4**.
 - Experience on serial communications: UART, SPI, I2C and CAN protocols.
 - Experience on Hardware Debugging (SW debugger) using ST-link debugger.
 - Experience on developing driver in 16x2 monochrome LCD .
 - Knowledge on Shell Programming (BASH) and RTOS.
 - Experience on Linux System Programming.
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SKILLSET

- PROGRAMMING LANGUAGES: C, Embedded C, Shell Script, Linux System Programming, Assembly language.
 - SIMULATION TOOLS : Keil IDE, Ubuntu.
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PROJECTS

Project - 1:

- **OBJECTIVE** : To read the temperature from every node and send to web server by using LM35 sensor through CAN and SPI Protocol.
- **TITLE** : INDUSTRIAL CAN IOT GATEWAY
- **HARDWARE TOOLS** : STM32F401RBT6, STM32G030F6P6.

- **DEVELOPMENT TOOLS** : ST-Link Debugger,STM CubeIDE.
- **DISCRIPTION** : The **Industrial CAN IoT Gateway with LM35 Sensors** project involves developing a system to monitor and transmit temperature data from multiple nodes in an industrial environment. Each node is equipped with an LM35 temperature sensor connected to the CAN network, allowing precise real-time temperature readings. The IoT gateway collects this data, processes it, and sends it to a cloud or edge platform for remote monitoring, analytics, and control.

Project - 2:

- **OBJECTIVE** : To read the temperature and send to web server by using LM35 sensor.
- **TITLE** : IOT BASED SMART WEATHER MONITORING SYSTEM.
- **HARDWARE TOOLS** : STM32F401RBT6.
- **DEVELOPMENT TOOLS** : Keil IDE,Tera Term, Dock Light, ST-Link Debugger.
- **DESCRIPTION** : In this project, reading data & time from DS1307 RTC and prints on the LCD for every 1second delay, and reads temperature from LM35 temperature sensor for every 5 seconds delay and prints on LCD and send it to server.If internet is not working,then temperature value along with timestamp will be stored in EEPROM.

QUALIFICATION DETAILS

Bachelor of Technology| Electronics and Communication Engineering

Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru • 2019 - 2023 • 7.26 CGPA

Senior Secondary

Narayana Junior College, Machilipatnam. • 2017 - 2019 • 9.07 CGPA

Secondary

Dr.K.K.R's Gowtham Concept School, Machilipatnam • 2016 - 2017 • 8.5 CGPA

CERTIFICATIONS:

- INDUSTRIAL ORIENTED TRAINING ON “**EMBEDDED AI SOFTWARE DEVELOPER**”for a period of six months.
- **INSTITUTE** : **KERNEL MASTERS**, Hyderabad.

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and feel responsible for any discrepancy.

Tammana Tarak Ram