

Gowtham

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PROFESSIONAL SUMMARY

Accomplished Embedded Engineer who has worked at Loginware Softec Private Limited. The engineer is proficient in C/C++ and embedded systems, and is experienced in interfacing sensors and hardware with microcontrollers. They also possess strong problem-solving skills and are adept in RTOS and various communication protocols, driving innovative solutions in a Linux environment.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Embedded C
 - **Tools:** Linux, STM32 Cube IDE, Keil IDE, GCC, Visual Studio Code.
 - **Communication Protocols:** Serial communication protocols like UART, RS232, RS485, SPI, I2C and Basic knowledge on CAN protocol.
 - **Other Skills :** Blynk, RTOS, ADC, Git and GitHub.
 - **Microcontrollers :** STM32F407VGT6, 8051, Node MCU(ESP8266),ESP32.
 - **Microprocessors :** Raspberry Pi 3, Raspberry Pi CM 4.
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WORK EXPERIENCE

Embedded Engineer (1 Year) Experience in
Loginware Softec Private Limited | Bangalore, India

May2024

- Experience in Embedded software Development.
 - Complete understanding of Embedded software development with exposure to various 8/16/32/64 microcontrollers and micro-processors.
 - Wired communication protocols UART, SPI, I2C and Basic knowledge on CAN.
 - Responsible for hardware interfacing of display with Micro-controllers and Micro-processor.
 - Responsible for interfacing sensors with Microcontrollers and Microprocessor.
 - Flexible to work on Linux Environment.
 - Knowledge on ARM Cortex-M4 architecture.
 - Experience in ST-LINK Debugger and Saleae.
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EDUCATION

BE - Engineering in Electronics & Communication
Govt Engineering college kushalnagar, Karnataka
GPA of 6.7/10.

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PROJECTS

❖ **Eagle mini(IIoT gateway for Manufacturing Industries).**

ESP8266, ESP-IDF, arduino, FreeRTOS, Linux, GitHub, We are providing edge Gateway for manufacturing Industries by using microcontroller ESP8266 with IDF and FreeRTOS. This is the lightweight version of the IIoT CNC monitoring project, Interfacing GSM module, ethernet, energy meter, and CNC signal pins with GPIO and capture machine data as digital input through GPIO pins, store it in local flash memory, and push it to a cloud database using https with FreeRTOS., Developing in Linux environment, design, debugging and testing.

❖ **IOT CNC MONITORING**

Raspberry Pi CM 4. Embedded Developer. Python3, Sqlite3, Linux, Git. This project is concerned ,about collecting signals from the CNC machines and based on signals pattern extracting information like Machine On/Off, Cycle On/Off, Power Consumption, Emergency and Alarm. And all the information extracted from all the signals will be stored in the local database and then the same information will be pushed to the server. And also creating communication between react application, local database and server using API programming.. To collect data from energy meter to raspberry pi through RS485., Developing in Linux environment, debugging.

❖ **DRIVER DEVELOPMENT,**

STM32F407VGT6, Embedded Software Developer and Hardware Interfacing, Embedded C, STM32 Cube IDE, Logical analyzer, Driver development for various peripherals as: UART Protocol, I2C Protocol, SPI Protocol. During this driver development. I also worked on various peripherals like ADC, PWM, etc., Understand the STM32F407VGT6 data sheet, enable the Required GPIO pins and clock configurations by using reference manual, Develop the code as per the requirements and maintain the coding standards., Resolving Integration problems and testing.

DISCLAIMER

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