

SAGAR

Designation: **Embedded Engineer**

Mobile No : 9591836479

Experience: **1 year 6 months**

Email: gowdasagar187@gmail.com

EXPERIENCE SUMMARY

Loginware Softtec Private Limited, Bengaluru, from October 2022 to till date.

Designation: Embedded Engineer

I have a total of **1 year 6 months** of professional experience focused on embedded product design, development, programming & debugging using languages such as C/C++, Embedded C, Python.

Current Employer: Working as an Embedded Engineer for Loginware Softtec Private Limited, from October 2022.

OVERVIEW

- Experience in **Embedded software Development**.
- Complete understanding of Embedded software development life cycle with exposure to various **micro-controllers** and **micro-processors**.
- Having knowledge on **cross compilation** and building the source code for various platforms like Raspberry Pi.
- Wired communication protocols **UART, SPI, I2C** and Basic Knowledge on **CAN**.
- Knowledge on IOT cloud platforms like **Ubidots** and **MQTT**.
- Flexible to work on **LINUX** environment.
- Knowledge on **ARM Cortex- M4 architecture**.
- Experience in Driver based coding for various micro-controllers and micro-processors using **Hardware Abstraction Layer(HAL)**.

PROJECTS

Project 1 : MOBILE STARTER MOTOR CONTROLLER.

Microcontroller: ATmega328P

Role : Software Developer and Hardware Interfacing.

Tools : Embedded C, Arduino.

Description : This device is used to control electric motors, sets through mobile phone using GSM technology from remote location. The controller is connected to starter and operating through user mobile. By making call user can turn ON/OFF the Motor. It gives manual ON/OFF intima.

Responsibilities:

- Microcontroller programming using embedded c and testing.
- Resolving Integration problems and testing.

Project 2 : IIOT CNC MONITORING

Microprocessor: Raspberry Pi 400

Role : Software Developer

Tools : Python3, Raspberry Pi 400, Sqlite3.

Others : Linux, Thonny.

Description : This project is concerned about collecting about 8 signals from the CNC machines and based on signals pattern extracting information like production, power management, 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.

Responsibilities:

- Design the code as per the requirements and maintain the coding standards.
- Developing in Linux environment, debugging.

ACADEMIC QUALIFICATION

- B.E.(Electrical and Electronics Engineering) at Government Engineering College of Mosalehosahalli, Hassan with 7.3 CGPA.
- Diploma at Smt. L.V Government Polytechnic, Hassan, with 72%.
- SSLC at C.K.S English Medium School, Hassan, with Distinction 88%.

TECHNICAL SKILLSET

Programming Languages : C/C++, Embedded C, Python.

Tools : Linux, STM32 Cube IDE, Keil IDE, Visual Studio Code.

Communication Protocols : Serial communication protocols like UART, RS232, SPI, I2C and Basic knowledge on CAN protocol.

Microcontrollers : STM32F407VGT6, 8051, Arduino, Node MCU(ESP8266).

Microprocessors : Raspberry Pi 3, Raspberry Pi 4, Raspberry Pi 400, RPi Pico.

PERSONAL DETAILS

Name : SAGAR

Date of birth : 01/11/2001

Father's name : KARIGOWDA

Permanent address : S/O Karigowda, Asha Bhadavane, K.E.B Circle, Alur (T), Hassan(D), Karnataka.

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

Place: Bengaluru

Date:

SAGAR