

Embedded Software Developer

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CAREER OBJECTIVE :

To work in a firm with a professional work driven environment where I can utilize and apply my knowledge, skills which would enable me as a graduate to grow while fulfilling organizational goals.

PROFESSIONAL SYNOPSIS

- 3+ years of experience developing Embedded C++ applications on the Linux platform, delivering high-performance and reliable solutions.
- Developed and optimized C++11 applications for ARM-based products with reliability & scalability.
- Developed applications using QT/QML for scalable GUI applications by ensuring high performance.
- Expert in developing clean and efficient code adhering to best practices within the Qt framework.
- Strong knowledge of communication protocols like UART, SPI, I2C, and TCP/IP.
- Extensive experience with SQLite for offline data storage solutions, ensuring efficient and reliable database management.
- Proficient in Linux Inter-Process Communication mechanisms, multi-threading, and Socketing.
- Demonstrated expertise in troubleshooting software issues and effectively debugging large codebases to ensure smooth and efficient system performance.
- Solid understanding of an Agile Methodology and SDLC, guaranteeing task completion on time.

PROFESSIONAL EXPERIENCE:

Working as Embedded Software Developer in Gusto Software Solutions Pvt. Ltd., Since January 2022 to till date.

TECHNICAL SKILLS:

- Proficiency in Programming Languages : C, C++ & Embedded C.
- Controllers and Processors : 8-Bit/32-Bit & ARM Cortex-A.
- S/W Platforms : QT IDE, Keil, SQLite.
- Compilers : GCC, G++
- Debugger : GDB
- Protocols : UART, SPI, I2C, TCP/IP.
- Operating System : Linux and Windows

PROJECTS SUMMARY:

1. Comprehensive Interacting for Data Exchange and Continuous Connectivity.

- **Role** : Embedded Developer
- **Hardware** : ARM Processor.
- **Environment** : QT IDE, Embedded C++, Linux.

Description:

This solution targets the manufacturing industry to boost productivity and reduce delays. It securely stores information for future analysis, leveraging the latest advancements in edge technology.

Responsibilities:

1. Understand the business and functional requirements of the product.
2. Developing GUI design and writing testable Embedded C++ code.
3. Involved in bug-fixing, Troubleshoot, upgrade existing system.
4. Responsible for Embedded coding that can be easily reused for future development.

2. Speed Performer Hydrodynamic Control Optimization Device

- **Role** : Embedded Developer
- **Hardware** : ARM Cortex A.
- **Environment** : QT IDE, Embedded C++, Linux.

Description:

Utilizing touch-sensitive inputs, the vending machine executes tasks, eliminating manual errors and accelerating delivery according to user commands. Its internal system maintains a database for simple status monitoring.

Responsibilities:

1. 1. Actively participating in the project team's deliberations regarding product design.
2. 2. Developing a human-machine interface utilizing approved icons..
3. 3. Tasked with integrating modules and performing code testing.
4. Functional code development with changes as per product requirements.

3. SMART LIQUID RESOURCE SUPERVISION AND OPTIMIZATION MODULE

- **Role:** Embedded Developer
- **Platform:** 8-bit, Embedded C, KEIL IDE
- **Description:** This product offers essential liquid purification through real-time parameter readings, ensuring optimal water quality. Utilizing ion exchange methods, it provides cost-effective solutions, streamlined equipment, user-friendly operation, and minimal reliance on organic solvents.

Responsibilities:

1. Analyzed product objective and requirement.
2. Implemented software programs to enable serial I2C communication.
3. Developed the software module for the ADC/DAC using GDR in the Core Software layer.
4. Engineered application programs for monitoring

EDUCATION AND CREDENTIALS:

- B.TECH in Electrical and Electronics Engineering from Rise Krishna Sai Prakasam Group Of Institutions and Affiliated by JNTUK.
- INTERMEDIATE in MPC from Sri Chaitanya Junior College.
- SSC with Board of Secondary Education from Narayana High School.

PERSONAL DETAILS:

- DATE OF BIRTH : 14/08/1999.
- MARITAL STATUS : Unmarried.
- LANGUAGES KNOWN : English, Telugu.
- Relocation : Anywhere

DECLARATION:

I here by declare that the above mentioned all details are true to the best of myknowledge.

E Sai Kumar

Signature.