

Embedded Engineer with 3 years

AASHUTOSH S P

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To obtain a challenging and responsible position in the field of Embedded System with a progressive organization where my experience and education will be recognized as a valuable asset to contribute for the success of the organization.

Strengths

- ✓ 3 years of experience in Firmware Development & Software Development.
- ✓ Excellent team player with 3 Years of Working Experience.
- ✓ Ability to analyze, design, analysis and test complex embedded systems.
- ✓ Ability to describe, validate and optimize embedded systems in different areas of industrial application.
- ✓ Ability to evaluate hardware and software requirements for communication and control applications.
- ✓ Good debugging Skill
- ✓ Strong in Documenting the product developed
- ✓ Achievement oriented with excellent communication and interpersonal skill.
- ✓ Possessing excellent creative, analytical, problem-solving skills.
- ✓ Flexible and always open to acquire new skills at a quicker place.

Key Skills

- ✓ Assembly, C, Embedded C, Linux, C++.
- ✓ Embedded protocol Development
- ✓ Board bring-up
- ✓ Exposure to Agile methodology
- ✓ Good firmware/hardware debugging skills
- ✓ System Application Development

- ✓ LDRA testing
- ✓ DO-178B
- ✓ RTOS (Vx-Works 653(3.3), Vx-Works 653 (2.5))

Technical Skills

Development Languages	:	C, Embedded C and basic C++
Compiler IDEs	:	Eclipse, Code-warrior, STM32cube ide, Arduino IDE , Rhapsody, LDRA.
Micro controllers	:	T2081(NXP), STM 32, Atmel 8051,
Microprocessor	:	PowerPC, ARM cortex series M0, M3, Raspberry pi .
Protocols	:	UART, I2C, SPI, CAN, TCP, ETHERNET, RS422 RS232.
Debuggers	:	JTAG, STLINK
Other Tools	:	IBM Door, Putty, minicom, tera term
Development Platforms	:	Windows and Linux, VxWorks
Configuration Management	:	GIT
RTCA	:	DO-178B

Current Company: MiraFra Software Technologies Private. Ltd Bangalore. (4 month)

Load raspbian and own image in Raspberry pi 4B

Development Tools: Raspberry pi imager, Yocto Tool, Linux, Embedded C

Previous Company: SARACA solutions Private. Ltd Noida. (2.8 years)

(Client Company: TATA Advanced Systems Limited)

Projects

1. Project: Board Support Package (BSP)

Development Tools: NXP T2081, Embedded C, UART, Bare metal, Yocto, Linux, LDD.

The project is to bring-up a bare metal T2081 processor-based CPU card. The firmware BSP software should be able to run and test all of the interfaces available in the designed board. All the hardware interfaces should be functional with U-boot and Linux loaded on the CPU card.

- Worked as a Firmware developer
- Bare metal code wrote for UART interface and module integration and testing.
- Bring up the Board (T2081).
- Preparation of requirement analysis and design documents.

2. Project: Automaton software.

Development Tool: VxWorks 653, NXP T1020, C, C++,

Roles and Responsibility:

- Worked as a software developer
- Application software development and module integration and testing.
- Unit testing for all modules
- Preparation of requirement analysis and design documents.

Description:

The project involves real-time Automatic Flight Control Computer (AFCC) software for the Automaton project. The AFCC software is meant to provide functionalities such as flight control, flight management, navigation and sensor management, communications management, and external interfaces.

Education

- ✓ **PG-DESD in Embedded system** at Centre of Development of Advanced Computing, Hyd.
- ✓ **BE in ELECTRONICS AND TELICOMMUNICATION** at SVPM, Baramati, Pune University
- ✓ **12th in Computer science** at Pratibha Niketan Collage, Nanded,
- ✓ **10th** at Yashwant School, Ahemedpur.

Personal Information

Father Name : Shankar Kashinath Panchgalle.
Date of Birth : 05/06/1997
Gender : Male
Address : Yelahanka, Bangalore-560064

Declaration

I hereby declare that all the above-furnished details are true to the best of my knowledge.

Aashutosh