Chellam Divya

Embedded Software Engineer seeking roles in Software Development, Application Programming, Requirement Gathering, Client Management, C, CPP, Linux System Programing, Python, Embedded C, Linux, JIRA

GET IN CONTACT

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PERSONAL DETAILS

- Total Experience 5 Years 6 Months
- Current Location Hyderabad/Secunderabad
- Date of Birth Aug 14, 1996
- Gender Female
- Marital Status Married

SKILLS

- Data Structures
- Linux System Programming
- C Plus Plus
- C Programming Language

TECHNICAL SKILLS

- C Programming, C++ Programming
- Data Structures,Linux System Programming
- Embedded C, Bash Shell Scripting
- Python Scripting, Device Drivers.
- U-Boot, Cross Compiling
- Porting Linux Kernel
- Google Test And Google Mock
- Linux (Ubuntu)
- VF610, IMX6
- PLC/Microcontrollers/Microprocessors
- I2C Protocol, SPI Protocol, UART
- Keil, Stm32cubemx, Proteus, JIRA
- IBM Rational Doors, SVN, VPN
- Confluence, Docker
- Gcc, G++, Arm-Linux-Gcc, Arm-Linux-G++
- JTAG

LANGUAGES KNOWN

- English
- Telugu

PROFILE SUMMARY

5 years of experience as an Embedded Software Engineer.
??? Proficient in Agile development methodologies and project tools.
??? Strong knowledge of Do-178c standards.
??? Expertise in developing software solutions for embedded systems using C/C++, IPC, Threads, and Signals on Linux.
??? Exceptional C programming and debugging skills.
??? Proficient in system integration.
??? Experienced in application development, debugging, and code reviews for embedded software modules.
??? Knowledgeable in Device Drivers, especially Char Drivers.
??? Good at Python Programming.

EDUCATION HISTORY

Graduation

Course	B.Tech/B.E.(Electronics/Telecommunication)
College	sr Engineering college
Year of Passing	2017

WORK EXPERIENCE

Mar 2021 to Present

Software Engineer at Wipro

- Designed & developed software for embedded systems and coded different modules using various technologies(C/C++, IPC on Linux.)

May 2018 to Mar 2021

Embedded software engineer at ANTS GLOBAL SYST EMS

- Managed Requirement Gathering, Development, and Deployment activities related to each module.
- Introduced agile methodologies and effective development best practices to division to enhance product development.

PROJECTS

LINUX INTEGRATED SYSTEM ANALYZER (Client - Qualcomm), 22 Months

LISA is a post processing tool used for integrated analysis of various hardware
monitor events, power measurement and software events.
??? Developed a Python application for tool development, enhancing the
efficiency of the development process.
??? Facilitated the seamless integration of new chipset functionalities and
provided ongoing support to ensure the tool's robust performance.
??? Expanded the tool framework by introducing new templates, specifically
focused on power regression analysis, enabling the comparative analysis of
two distinct chipsets.
??? Successfully met project deadlines, consistently surpassing expectations by
delivering high-quality results within the stipulated time frame.
??? Demonstrated strong expertise in code optimization, with a primary
emphasis on reducing execution time, significantly enhancing project
efficiency and performance.

INFLIGHT ENTERTAINMENT SYSTEMS, 19 Months

In-Flight Entertainment Display development, Inflight Connectivity, IFE content
integration.
??? Developed various tests on Uboot, based on reading schematics of the LRU
(Hardware).
??? Performed ATP, PVT and DVT on LRU (Hardware).
??? Integrated various types of LRU with the existing framework for LRU
Development and validating.
??? Test Driven Development Approach.
??? Wrote an application to verify the internals of the LRU (Hardware) on
U-boot level.
??? Followed Agile Methodology, with SCRUM Process for the product
development.

PLATFORM INTERFACE MODULE, 10 Months

This module is to control one device from another using UART and Ethernet
Interface.
??? Developed UART communication between two devices.
??? Developed an interface protocol to transfer the data between two devices in
a designed message format.
??? Design development and Application developed, to log all the messages
communicated over UART.
??? Handled Message Format through application. And verified the
communication over application with Heartbeat.
??? Used Docker for developing and running the

application.
??? Used Centralized Version Control Tool-SVN for repository setup

FLIGHT CONTROL DEDICATED INERTIAL SENSOR, 5 M onths

Part of the flight-critical fly-by-wire system, the Flight Control Dedicated Inertial
Sensor (FCDIS) issues the commands that cause the aircraft???s control surfaces to
move and keep it on the desired path.
??? Followed DO-254 Airborne Electronics Hardware guidance.
??? Problem solving (findings) in VCD and VPRD Documentation.
??? Maintained traceability of the complete process flow.
??? Reviewed the design and the requirement according to the guideline.