

DHANASHRI PRAMOD HALADKAR

Embedded Software Engineer

Bangalore

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Career Objective:

A Embedded Software Engineer with a comprehensive ~1 years 10+ months tenure, encompassing 6 months of intensive training in C, Data Structures, Networking and possessing a solid understanding of Linux operating system, along with strong debugging skills and knowledge of communication protocols. Seeking a responsible and challenging position in an esteemed organization, aiming for continual learning and professional growth, while contributing to both organizational success and personal development.

Key Skills:

Operating Systems --- Linux • Windows

Programming Languages --- C, Embedded C, DS and Linux programming

Development tools --- IAR Embedded work bench • KEIL • CubeIDE • Cube programmer • TPC

Debugging Tools --- GDB • Valgrind • Wireshark • GNU

IDE/Version Control --- GIT • Gerrit • Jenkins • Bugzilla workflow

Communications protocols --- UART • I2C • SPI • TCP/IP • UDP

Editing tools --- VIM • VS Code • Notepad++ • OneNote • Meld

Professional Experience:

Capgemini Engineering (Client Office)

Project 1: Open BMC/Yocto

Oct 2024 - Present

This project involves developing a new meta-layer and recipes for the client.

- Developed a custom meta-layer and integrated the WebUI.
- Integrated the AST26000 A speed BMC into a custom meta-layer, enhancing system management capabilities and improving overall hardware performance.

Capgemini Engineering (In-House)

Project 2: Secure Boot Project

Jun 2023 – Sep 2024

This project developed and maintained a security standard firmware package for client.

- Included Cryptographic drivers, middleware's and BSP's, while adapting and debugging project for various IDE's on new different SOC's.
- Developed Security-focused Board utilizing SBSFU and OEMiRoT to enhance system integrity and protection across various SOC's.
- Debug the reported defects/issues from the customer and fixed that in source code.
- Proven track record in fixing issue via Bugzilla and Gerrit tickets.
- Implemented MISRA guidelines for maintaining the code quality.
- Integration on new market release platform.
- Worked on STM32H5, STM32U0, STM32H7RS, STM32U5, STM32WBA families.

Capgemini Engineering

Domain Training

Apr 2023 - May 2023

- Linux device drivers, Linux kernel internals and Linux System programming.
- Board bring-up activity on Beagle Bone Black.
- Board bring-up activity for the Yocto project using the Dakota board.
- Linux device driver implementation.
- Hands-on implementation of Loadable Kernel Modules (LKM).
- Implemented TCP/UDP client-server program.

Capgemini Engineering

Learning and development Training

Sep 2022 - Mar 2023

During my training, I covered the following topics:

- Linux Environment: Basic commands, Vim editor, and essential tools.
- C Programming & Data Structures: Stack, Queues, Linked List, Searching, and Sorting.
- Linux Programming: Processes, Threads, IPC (Message Queues, Shared Memory, Pipes), Synchronization (Mutex, Conditional Variables).
- Networking Fundamentals & Socket Programming: TCP and UDP sockets.
- Proficient in analyzing logs and creating comprehensive test plan.

Education:

B. Tech SIT College of Engineering , Yadrav E&TC Engineering 9.12 CGPA	2018 – 2022
12th Sharad Science and Commerce college, Yadrav Science 71.85%	2016 – 2018
SSC (10 th) DKTE, Ichalkaranji 91%	2015 - 2016