MANJULA GAVVALA

EMBEDDED SYSTEMS DEVELOPER (LINUX)

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About

Dynamic Associate Engineer with 1.3 years of experience specializing in Linux device driver development and embedded systems. Proficient in C programming, Linux kernel internals, and ARM-based SoCs.

Skilled in debugging, multi-threaded programming, and developing robust driver solutions for peripherals and subsystems. Adept at collaborating with cross-functional teams and delivering high-quality embedded software solutions.

Education

Bachelors of Technology - ECE

Madanapalle Institute of Technology & Science 2019 - 2023

Higher Secondary/Diploma – Science (XII)

Glennwood University 2017 - 2019

Secondary School Education (X)

Bellows College 2017

Experience

Interex Semiconductors

Project:

INTEREX DATA Centre Board Management Card work Experience

2023 - Till date

- Involved in Linux and u-boot bring-up on Virtual and Silicon Platform.
- Implemented Bare Metal for driver from the scratch for SPI, PCIe, Tacho Meter and Nor-Flash.
- Involved in driver bring up in Linux Platform for SPI, PCIe and Tacho Meter.
- Implemented platform device driver for Tacho Meter.
- Added stability Testcases for Tachometer.
- Involved in driver bring up in Linux Platform for SPI, PCIe and Tacho Meter.
- Implemented platform device driver for Tacho Meter.

Industrial Training & Certifications

- Embedded Systems Certification, Moschip Institute of Silicon Systems
- Hands-on training in device driver development for ARM SoCs.

Technical Skills

- **Programming Languages:** C, Python, Bash
- Operating Systems: Linux, Android, Open BMC
- Architectures: ARM32/64. RISC-V
- Boards & SoCs: RPI3, BeagleBone Black, NanoPI M3, INTX2401
- Subsystems & Protocols: I2C, UART, GPIO, USB, PCI, SPI, PCIe
- Debugging Tools: JTAG, GDB, Lauterbach, Oscilloscope, Protocol Analyzers
- **Development Tools:** Git, Jira, Buildroot, Yocto, Confluence.
- Build Systems: Buildroot, Yocto
- Concepts: Multi-threading, IPC, RTOS concepts, Linux Kernel Internals