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. | |  | ExperienceInterex 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. | | |  |
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|  | EducationBachelors 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 | |  |  |
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|  | 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 | | | |  |