

Faayiz M

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Professional Summary

Respectful self-motivated and hardworking Embedded developer. Experienced in Embedded platform, device drivers, networking/IoT protocols and processor, SOC integration with software. Accustomed to working with cross-cultural, global teams looking for growth in personal and professional life.

Work History

MBit Wireless - Embedded Software Developer

Chennai, TN

07/2016 - Current

Achievements:

- Developed SoC modules like WDT, I2S and TDM device drivers.
- DSP processor and application processor IPC communications using interrupts.
- Developed memory leak analysis framework.
- RTOS /Linux open source code integration into the ARM.
- Ported Linux kernel, u-boot into BeagleBone board for validation purposes.
- Main member of signing of SoC modules and debugging.
- Developed various protocols like IPv4, IPv6, TCP, and UDP for communication.
- Developed RTP (Real time protocol) for Voice applications in SoC.
- Integrated TI Audio codec into SoC to read voice data.
- Integrated open source Soft codec like AMR for converting PCM to AMR and encapsulate it in RTP and send via internet protocol.
- Developed standalone test environment for AMR and RTP in linux using WAV audio file
- Developed ELF parser for debugging purpose.

Responsibilities:

- Designing and developing device driver software from requirement to commercial deployment
- Porting open source software into system software
- Analyzing core dumps and Logs for issue reporting
- Developing communication protocols(TCP/IP)
- Integral member in signing off SOC modules as part of pre-silicon chip screening for mass production.
- Porting Linux OS into the BeagleBone board and supported team in the booting of the same.
- Responsible for System profiling like code execution time, memory utilization of tasks running in processor.
- Review all driver/application codes and provide comments before signoff
- Support software QA

Technical Skills

- C, Embedded C, data structures
- Exposure to C# and c++
- Exposure to RTOS(Nucleus and FreeRTOS)
- Exposure to Boot ROM – Firmware download
- Exposure to bootloaders and Uboot commands for booting
- Processors – ARM Cortex R4v7
- Interfacing protocols – I2C, SPI, UART, I2S and TDM
- Network Protocols – IP, TCP, UDP, DNS, ICMP, RTP, SLAAC, DHCP, TLS, DTLS, IPSec
- Exposure to IoT protocols – MQTT
- RTOS/Linux OS integration with processors
- Microcontrollers – Arduino UNO, BeagleBone black
- Language - Make-file, Linker script ,Perl script
- Linux Debugging – GDB, Valgrind
- Target Debugging - Trace 32 Lauterbach for ARM Cortex R4
- Tools – Wireshark, nmap, tcpdump
- ELF parser

Education

June 2016,Karaikal,PY

Perunthalaivar kamrajar institute of engineering and technology, Karaikal
Bachelor of Engineering : Information and Technology

- Graduated with 7.91 GPA

April 2012,Karaikal,PY

St.Maries Higher Secondary School
Computer science

- Percentage : 77%

Personal Information

Date of Birth : 11th February 1995
Address : A3, 1st floor AV house, PTC, Thuraipakkam, Chennai 600097.