

Software Engineer – ISD

Eligible : MS Computer Science, MS Software Systems, MS Embedded

Job Description

Join our dynamic software engineering team for Bangalore site for Client Computing and Automotive efforts involving key technologies which may involve Camera, Video, Power, Audio kernel mode driver development. Evaluate and drive Performance and power optimizations on overall platform.

Requirements

- Good C/C++ programming skills
- Good problem solving skills.
- Good understanding of Data Structures, Algorithms and Operating System concepts.
- Good understanding of software design & development fundamentals.
- Ability to learn and adapt in a dynamic team.
- Experience/Familiarity with various software components - BIOS, ACPI, UEFI, Device Drivers is a plus.

Students interested in this requirement can get familiar with below topics before the interviews.

- Interrupts, memory management, processes, threads, Interface design, callback functions
- Device I/O Control, synchronization techniques
- Operating system boot sequence
- Basics of ACPI and UEFI
- ARM processor architecture

SoC Digital Design/Integration Engineer – CD9

Eligible : MS VLSI or MS Microelectronics.

Requirements

- Experience with RTL design (HDL) and verification (FPGA-based emulation)
- Familiar with front-end implementation flow and related EDA tools such as Lint, CDC, DC, ...
- Knowledge of related domains
 - AMBA protocols such as AXI, AHB, APB, ...
 - Multimedia related such as video processing, audio processing
 - Peripherals such as I2C, USB, storage controller
 - SoC clocking, reset, debug, design for testing, ...
- Direct participation from micro-architecture design through tapeout, silicon verification, and mass production is a plus

Communication Engineer – WCS/MSP

Eligible : MS Communication and MS DSP

Responsibilities:

- Strong educational background in communication and DSP design.
- Good understanding of 3G/4G/5G communication receiver design.
- Baseband system architecture, Modem algorithm and HW interface and control
- Good exp in C Language, DSP Programming and Physical layer communication
- Develop DSP code, include bug fixing, new feature development, performance tuning
- Firmware code and Chip verification