**Audio Solutions Engineer,** Motorola Solutions Malaysia

Job description

On any given day, every moment matters to someone, somewhere. And every moment, Motorola Solutions' innovations, products and services play essential roles in people's lives. We help firefighters see around buildings and police officers see around street corners. We keep utility workers connected and visible to each other with real-time voice and data communication across the smart grid. And we provide the situational awareness first responders need when a moment brings catastrophe. We help people be their best in their moments that matter. Audio Solutions is a specialized engineering team within Motorola Solutions, we carry out research and implementation of acoustic design, audio signal processing and speech technologies for advanced communication products for government and industry customers. Our customer-centric, team-based and innovative working environment provides an excellent growth opportunity for engineers. Audio Solutions is seeking a highly talented and technically strong individual to fulfill the Audio Solutions Engineer role.

* Good knowledge and understanding of how Android and Linux system works together. Knowledge in modifying Android Open Source Project (AOSP).
* Familiar with Android Audio Framework, such as ALSA Framework, Audio Service, Audio Manager, Audio Flinger, Audio HAL and tinyALSA
* Hands-on working experience in Qualcomm SoC and specific Qualcomm audio tuning tools such as QPST, QACT and QXDM
* Specific hands-on experience in Android Audio HAL subsystem, understanding mixer xml code structure and adding support and codes for new devices into xml, header and platform c codes
* Some hands on knowledge of the tools required to compile Android and to boot an Android Kernel in the target board
* Understand Linux Kernel’s build system and compiling.
* Experience with ADB commands, getting system log, accessing shell on the device as well as push and pull files.
* Good hands-on experience in writing test application and automation for Audio
* Communicate work status with clear articulation of design choices
* Identify design risks and develop mitigation strategies

**Minimum Qualification**

* Bachelor’s degree in Computer/Electronic/Electrical Engineering, Computer Science or related field.
* 3+ years of experience in software design and development for embedded system in a portable communication device
* Good in programming skills and proficient in C Language
* Good in Linux application programming is a good added advantage
* Very strong in debugging skills and documentation
* Experience working with audio and acoustic lab equipment