Senior Embedded Systems Security Engineer | CENSUS Abu Dhabi

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CENSUS is an independent, privately funded and internationally acclaimed Cybersecurity services provider. We support the needs of multiple industries, providing IT and OT security services to public and private organizations around the world, including international financial institutions and Fortune 500 companies.

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MSc or BSc in Electrical Engineering, Computer Science, Computer Engineering, Electronics Engineering, or equivalent practical experience.

4+ years of experience in embedded, general- or special-purpose computer system-level software security. Experience can be an engineering / development position (e.g., consumer or enterprise), an engineering-based consultancy role, an equivalent engineering-based role, or a combination of them.

Proven experience in developing, auditing, or testing security solutions for embedded, IoT, general computing or mobile / smartphone systems.

Key Skills

Experience with Embedded Systems, Linux, or Real Time Operating systems security concepts.

Experience with reviewing and researching system security architecture and engaged technologies.

Experience with ARM architecture and techniques to debug software running on these platforms.

Experience with C, C++, Rust, or Assembly (ARM) programming languages in the context of system software (bootloaders, drivers, kernel, system services, etc.).

Experience with secure boot, firmware & software integrity, OTA updates, and hardware-backed device attestation technologies.

Experience with cryptographic primitives and cryptographic best practices in the context of system security (inline crypto engines, storage encryption, attestation, HW key rooting, derivation, wrapping/unwrapping, etc.).

Experience in identifying and reporting security vulnerabilities on system software (memory corruption, side-channel attacks, business logic, etc.).

Familiarity with HW-backed security features for system hardening and security domains / trust-boundaries separation (MPU, MMU/IOMMU, NX, DAC/MAC, stack canaries, securing heap allocators, etc.).

Familiarity with TEE, TPM, SE, SPU, and other related technologies to isolate execution of security critical operations.

Experience of working with international teams in other regions and time zones worldwide.

Problem solving skills, analytical thinking, and willingness to learn/grow.

Proficient in English and excellent communication skills.

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