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Hardware Security architecture
STMicroelectronics - France
Posted 38 days ago

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About this job

📄 Job description

Inside the Secure microcontroller division, STMicroelectronics is looking for a security architect in charge of defining all security functions of a secure microcontroller.
Indeed, in the security architecture team, you will be in charge to define hardware security features for a secure microcontroller product. You'll have to master all type of attack in the context of Common criteria EAL5+ security evaluation. You'll be part of the project team as security leader from the definition of the product until its certification (the security certification is not the context of this job, nevertheless any know-how on security certification is welcome).

As part of the architecture, the embedded software should be included in the security architecture study; this requires below skills: 32-bit CPU architecture, assembly and C coding, software attacks are welcome.

Regarding security, various skills are expected in particular on cryptography and random number generation, but also in various hardware types of attacks:
- Side channel
- Fault injection (single or multiple)
- Probing or revers-engineering

📐 Desired Skills and Experience

Along with architecture definition, you'll have to drive the security validation for this product by writing detailed validation plan for security features.
Experience in architecture definition is necessary (>5 years) which includes skills in digital and analog development, cryptography, random number generation and embedded software.
In this role, you will also have to gather customer needs and state-of-the-art attack in order to define the accurate level of security.

Skills:
- Creativity, Autonomy, team collaboration, English fluent (speak, write)
- Architecture, Digital design, RNG, Cryptography, embedded software

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