Alexandre Venelli

Security evaluator Cryptography engineer 69 bis chemin des clotasses - appt B 220 31400 Toulouse @>06 77 24 02 21 @> alexandre.venelli@gmail.com http://avenelli.github.io

10 years of experience

	Experience
Jul 2014	Security evaluator, Thales Communications & Security, Toulouse.
	 Security evaluation of embedded products: smartcard, System On Chip.
	o Vulnerability analysis, code reviews and physical penetration testing on components.
	O Development of side-channel attacks software and machine learning tools.
	Machine learning & Deep learning analysis.
Feb 2011–May 2014	Cryptography engineer, INSIDE Secure, Meyreuil.
	\circ Specification and development of embedded cryptographic libraries (AVR, ARM) certified common criteria (EAL5+).
	o Specification of hardware blocks for symmetric cryptography: AES, DES.
	 Security evaluations of software libraries and hardware blocks by code review and side- channel attacks.
	 Academic research, scientific publications and patents.
Feb 2008–Jan 2011	Thesis in embedded security , <i>University of Méditerranée in collaboration with INSIDE Secure</i> .
	Title: "Contributions to the physical security of embedded cryptosystems".
Oct 2007–Jan 2008	R & D engineer, ATMEL, Rousset.
	EDUCATION
2008-2011	Thesis in embedded security, Marseille.
2006-2007	Master 2 Research Mathematics Cryptography Codes Calculus, Limoges.
	Skills
Security Cryptography	Symmetric and asymmetric cryptography: AES, DES, RSA, ECC, etc. Physical security of embedded components: side-channel attacks, fault attacks and study of

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related countermeasures.

Machine learning & Deep learning.

Languages French: mother tongue. English: fluent written and spoken.

Programming languages: Assembly AVR and ARM, C, CUDA, Python.

Sports Tennis, squash.

Software Development