

FLORIAN STOSSE

INFORMATION SECURITY ENGINEER

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EDUCATION

M.Sc. in Computer Science – ESIEA, Paris

August 2018

Major in *Information Security*, minor in *embedded systems*.

Graduated *summa cum laude*, with *jury honors*.

Master thesis : "Autonomous vehicles security"

State of the art study of vehicles security, specific risk analysis focused on autonomous functions threats, and development of a dedicated security evaluation methodology.

Associate's degree – University of Lorraine, Metz

July 2014

Major in *Computer Science*.

Internship subject : "Multi-sensors ad-hoc network use to improve indoor positioning of mobile users"

Embedded system (*LEGO Mindstorms EV3*) programming in Java (*Lejos* framework).

EXPERIENCE

Safran Data Systems

June 2019 – Present

Platform security engineer

Paris, France

- As a platform security engineer in the Space & Communications business unit, my main activities are :
 - ◊ Hardening of embedded Windows 7 & 10 platforms
 - ◊ Vulnerability and compliance scans with Nessus
 - ◊ Development, test and integration of new security solutions and architecture
 - ◊ Technical referent and L3 support on Operating Systems and Security matters
 - ◊ Security tools integration in CI/CD pipelines

ANSSI – National Cybersecurity Agency of France

October 2018 – March 2019

Software security expert / PhD student

Paris, France

- Formal methods and software security against side-channels vulnerabilities
 - ◊ State of the art of existing countermeasures (LFENCE, Speculative Load Hardening, ...)
 - ◊ Impacts study : generated code size, performances overhead, residual risk, ...
 - ◊ Proof-of-Concept of a detection and remediation plug-in using static analysis and Frama-C

Bureau Veritas – RAMS department

September 2015 – September 2018

Computer security engineer (apprenticeship)

Paris, La Défense

- - ◊ Cybersecurity and safety common process design for automotive manufacturers (*SAE J3061*) and Bureau Veritas' representative at ISO 21434 ("Automotive Cybersecurity Engineering") JWG
 - ◊ Industrial systems cybersecurity certification (*IEC 62443* standard, level SL1)
 - ◊ Risk analysis and security assessment of IoT products and architectures (*EBIOS* methodology)
 - ◊ Sound static analysis of critical embedded software (*Frama-C* platform)
 - ◊ Principal writer of several technical guidelines on vehicles security and software security

PUBLICATIONS

Conference publications

- ◇ Florian STOSSE et al. « Les enjeux de la cyber sécurité dans le domaine des véhicules connectés ». In : *Congrès LambdaMu 20* (2016)
- ◇ Florian STOSSE et Franck SADMI. « Intégrer les enjeux de la cybersécurité aux démarches existantes de sécurité fonctionnelle dans le domaine des véhicules connectés ». In : *Conférence ISA France, cyber-sécurité et sécurité fonctionnelle* (2016)
- ◇ Olivier D'HÉNIN et al. « Guidelines for secure software development ». In : *Congrès LambdaMu 21* (2018)

Technical guidelines

- ◇ BV-CARCYBERSEC-001 : Cybersecurity of connected vehicles – Best practices
- ◇ BV-SW-200 : Cybersecurity Guidelines for Software Development & Assessment

General press

- ◇ Interview : what's next for connected vehicles security ? (Sentryo's blog)

SKILLS

Operating systems	Windows hardening (Secure Boot, virtualization-based security, BitLocker), GNU/Linux Debian & Ubuntu
Standards	RGS, ANSSI guidelines, IEC 62443, SAE J3061, ISO 21434, NIST SP800-82, ISO 17961
Risk analysis	EBIOS, Microsoft STRIDE
Code analysis (sound)	Frama-C
Code analysis (quality)	Checkmarx, SonarQube, CppCheck, RATS, Clang-Analyzer
Fuzzing	ClusterFuzz, libFuzzer
Vulnerability analysis	OpenVAS, Nessus
Firewalls	Stormshield, pfSense
Networks	Nginx web server, Squid proxy, Unbound & nsd DNS servers
Programming	C, OCaml, Java, VHDL, Python, Bash, L ^A T _E X

CERTIFICATIONS

- ◇ ANSSI SecNumEdu, 2018. Certificate number EE402EDEEAA7.
- ◇ Stormshield CSNA (Certified Stormshield Network Administrator), 2017 – 2020. Result : **84%**
- ◇ TOEIC Listening and Reading, 2017. Result : **990/990**
- ◇ Advanced English Language Course, Wrexham Glyndwr University (Wales), 2017.

MISCELLANEOUS

- ◇ English : complete professional & technical fluency
- ◇ French : mother tongue
- ◇ Member of the Cyberdefense committee at Les Jeunes IHEDN¹

1. *Institut des Hautes Études de la Défense Nationale (Institute for Higher National Defence Studies)*