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<http://securitech.homeunix.org>

EDUCATION

- 2001-2006 **ESIEA Engineer (*Ecole Supérieure d'Informatique, Electronique-Automatique*)**, a French engineers school specialised in Information Technology and Electronics offering a five-year degree comparable to a Master of Science.
- 2000-2001
- Validation of the 1st year at ESI Supinfo (*Ecole supérieure d'informatique de Paris*).
 - **Microsoft certification (MCP)**: TCP/IP administration under Windows NT4.
 - **Microsoft certification (MCP)**: Windows 2000/XP administration and deployment.
 - **CISCO certification**: 1st module.
- 1999-2000
- "**Baccalauréat Scientifique option Technologie industrielle**" (French high school qualification) with honours, comparable to A-levels in science subjects.

WORK EXPERIENCE

- Since Nov. 2006 **Apple Inc. – DRM Technologies**
IT Security expert engineer.
- Feb. 2006 – Nov. 2006 **Sagem DS (Défense Sécurité)** – Aircraft Information System department.
Aircraft system security on A380 project. Penetration tests, vulnerability assessments for European official certification, security recommendations and impacts analysis.
- April 2005 – Nov. 2006 **Infratech (Consulting company in IT security and network design)** - France
Written technical specifications, articles, and amd white papers.
- June 2005 – Aug. 2005 **Lingup**, Montreal (Canada)
Studied and developed a Voice over IP solution. Secured Lingup servers.
- Jan. 2005 – June 2005 **EADS CRC (Common Research Center)** at part time – IT security department - France
Analysed software vulnerabilities (especially *chroot* bypassing techniques). IT security survey.
- Dec. 2003 – August 2004 **EADS DCS (Defence and communication systems)** at part time then as technical internship (Mai-August) – OPRT (*Operation Research and Technology*) department - France
- Studied and developed of a network security auditing system.
 - Implemented trusted VoIP (Voice over IP) solutions on wireless networks.
- Sept. 2003 – Feb. 2006 **PIER (Process Ingénierie Etudes Réalisations)** - <http://pier.esiea.fr> - France
Trainer for several companies in SGBD, computer security...
- Sept. 2002 – Feb. 2005 **Challenge-SecuriTech** - <http://www.challenge-securitech.com> - France
Head of a French project consisting in a national security challenge (7 people) - 2200 participants.
- June - July 2003 **ESIEA (*Ecole supérieure d'Informatique, Electronique-Automatique*)** - France
Developed a DNS security auditing software: <http://www.packetfactory.net/projects/dnsa/>
- August 2002 and July 2001 **Bertin Technologies- Energy Process Environment** department - France
Developed a video acquisition software for an ergonomic system (*Plateus*).
- Feb. 2001 & Sept-Oct 2000 & Jun. 99 **Bouygues-Offshore** (Currently SAIPEM SA) - Data processing Department - France
Installed, deployed and administrated servers.

LANGUAGES

English Fluent / daily (*TOEIC score: 900 pts / London Examinations ED Excel International level 3*)
Spanish Basic level (high school level)

TECHNICAL SKILLS

Operating systems: MacOS, UNIX/Linux, Windows.
Development: Assembler x86/PPC (*Reverse engineering*), C, Perl/Python, Scripts...
Network and security:
- Servers (HTTP, DHCP, DNS, SMTP, etc.).
- Firewalling on levels 2 and 3, routing, intrusion detection systems (*IDS Snort, Prelude...*).
- Security assessments / pen-tests (penetration testing) and several enforcements (chroots, LKM...).
Reverse engineering (IDA, OllyDBG, PyDBG, etc.).
- Virtual private networks (VPN): *IPSec, PPTP, tunneling*, etc.
- Network topologies, load analysis and flow optimisation, Covert channels...
- VoIP (Voice over IP) and VoWLAN: SIP, H323, RTP/SRTP...
- Wireless technologies: 802.11, WPA (1/2), 802.1X/EAP/Radius, Bluetooth...
Cryptography: Good low level knowledge of main hashing / encryption schemes.

CONTRIBUTIONS

Relative papers, presentations and resources available on <http://securitech.homeunix.org>. End of the public talks since Nov. 06.

Publications

- « New protection means, new bypass solutions »
Written for MISC n°28 (Multi-system & Internet Security Cookbook), French security magazine
<http://www.miscmag.com>
- « Bluetooth and implementation weaknesses : from theory to practical cases »
Written for MISC n°25 (Multi-system & Internet Security Cookbook), French security magazine
<http://www.miscmag.com>
- « Bluetooth (In)security »
Bluetooth device security state of the art and presentation of new vulnerabilities
BSS (*Bluetooth Stack Smasher*) tool released on <http://securitech.homeunix.org/blue/>
Article and resources available online on Secuobs.
<http://www.secuobs.com>
- « Network protocols : rise and fall »
Written for SSTIC05
<http://www.sstic.org>
- « Voice over IP (in)security »
Written for MISC n°16 (Multi-system & Internet Security Cookbook), French security magazine
<http://www.miscmag.com>
- « DNS Intrinsic security flaws »
Available on PacketFactory.net
<http://www.packetfactory.net/projects/dnsa/>

Talks and presentations

- « Bluetooth devices (in)security. Stakes of new mobile threats »
EuroSec (European IT Security forum), Paris (France) - April 2006
<http://www.forum-eurosec.com>
- « Network protocols : rise and fall »
SSTIC (*Symposium sur la sécurité des technologies de l'information et de communication*), Forum on IT security
Rennes (France) - June 2005
<http://www.sstic.org>
- « Voice over IP (VoIP) Security, Attacks, threats and solutions »
EuroSec (European IT Security forum), Paris (France) - March 2005
<http://www.xpconseil.com/eurosec2005/>
- « Experience feedback of a French security challenge »
OSSIR (*Observatoire de la Sécurité des Systèmes d'Information et des Réseaux*), Information systems security and
networks observatory
Ecole normale supérieure, Paris (France) - June 2004
<http://www.ossir.org>
- Challenge-SecuriTech - Closing 2003 & 2004 conferences
Paris (France) – May 2003 and 2004
<http://www.challenge-securitech.com>
- « Interview about organizing a French security challenge : Challenge-SecuriTech »
Portal SecuObs - April 2004
<http://www.secuobs.com>

INTERESTS

Tennis (competition), karting, guitar.