

Samuel Hocevar

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Single, born on 5th August 1978
in Forbach (Moselle)
French nationality
French driving licence

Languages

French	fluent (mother tongue), good grammar and spelling
English	fluent (TOEFL score: 647 in 1997), numerous stays in England, can tell the difference between <i>it's</i> and <i>its</i>
German	good knowledge and practice
Spanish	good knowledge

Professional experience

2009–present	Senior R&D Engineer at DONTNOD Entertainment (<i>C</i> , <i>C++</i> , <i>Unreal Engine</i> , <i>fluid simulations</i> , <i>PS3</i> , <i>Xbox 360</i> , <i>PowePC</i> , <i>SPU</i> , <i>Cell</i> , <i>AltiVec</i> , <i>SSE3</i>)
2006–2009	Director of R&D at [redacted], a 700-employee company (<i>surveillance systems</i> , <i>video streaming solutions</i> , <i>intelligent vision</i>)
2003–2006 (not defended yet)	SNCF - Direction de l'Innovation et de la Recherche, ENST - Laboratoire Informatique et Réseaux: Computer Science Industrial PhD ("Generation of realistic railroad simulations from video images") (<i>image processing</i> , <i>computer vision</i> , <i>3D reconstruction</i> , <i>video coding</i> , <i>HDTV</i> , <i>C</i> , <i>Unix</i>)
2002	SNCF - Direction de la Recherche et de la Technologie, unité Nouvelles Technologies de l'Information et de la Communication (Paris, France), 8 months: work on a showpiece for at-seat multimedia services and video streaming research (<i>C</i> , <i>C++</i> , <i>Unix</i> , <i>Win32</i> , <i>WinCE</i> , <i>MPEG</i> , <i>MPEG2</i> , <i>MPEG4</i> , <i>WiFi</i>)
1998–2002	VideoLAN, video streaming solution and cross-platform DVD player: major project contributor for several years (<i>C</i> , <i>C++</i> , <i>Unix</i> , <i>Win32</i> , <i>MPEG</i> , <i>MPEG2</i> , <i>DVD</i>)
1999	ClaraNet France (Paris, France), 7 months: systems team - Unix administration, network tools development (<i>C</i> , <i>PHP</i> , <i>MySQL</i>)

Training

2003–2006	(unfinished) École Nationale Supérieure des Télécommunications (ENST), Paris: Computer Science Industrial PhD
1997–2002	École Centrale of Paris: engineer's diploma, electromechanical systems and applied mechatronics speciality, project management specialisation, graduated with honours (mention bien)
1995–1997	Lycée Fabert, Metz (France, Moselle): preparatory classes

Personal knowledge

- Operating systems
- GNU/Linux (administration well-mastered, part of the Debian project)
 - 3rd generation console systems (PS3 & Xbox 360), iOS, Android
 - Solaris, BSD Unix, Mac OS X, GNU/Hurd, Windows
- Networks
- LAN (Ethernet, ARP, RARP, Token Ring), ATM
 - Cisco IOS, SNMP administration and monitoring
 - low-level Internet: IP, TCP, UDP, ICMP, IGMP
 - high-level Internet: HTTP, NNTP, SMTP, DNS, DHCP, NFS
- Administration
- 9 years of Unix administration experience, excellent knowledge of the common tools
 - examples of well-known server setups: INN, Apache, BIND, Postfix
- Programming
- low-level: x86 and amd64 assembly (MMX, SSE, SSE3, excellent knowledge), PowerPC & Cell assembly (AltiVec, SPU), NEC/Saturn assembly (mastered), Z80 and m68k assembly, reverse-engineering
 - high-level: C & C++ (excellent knowledge, several personal and team projects of more than 5,000 lines), C#, Java, Scheme (good knowledge), bases in Pascal and Caml
 - libraries: Xlib, GTK+/GNOME, SDL
 - scripting languages: POSIX shell, PHP, sed and awk well mastered, good knowledge of Python, Perl
- Other
- databases: MySQL, PostgreSQL
 - markup languages: LaTeX2e, SGML, HTML, XHTML, CSS
 - good knowledge of the MPEG and MPEG2 standards (especially the system layer), excellent knowledge of the DVD format
 - excellent image processing skills (various projects, from robot guiding to captcha decoding)

Miscellanea

- Sports
- practical experience of judo for 8 years, soccer, badminton, coneball
 - chess competitions (current ELO: 1860)
- Culture and leisure
- Scrabble, bicycle, modelling, drawing and painting, reading, cinema, 20th century artistic movements, Japanese culture, cooking
 - active contributor of the **Wikipedia** project (French and English versions) since 2004
- Computers
- part of the **Debian** project since 1999 (Project Leader 2007-2008), various activities amongst the OpenSource community, mostly development