

1 Personal details:

Name: Robert Swiecki (Robert Świącki)

E-mail: robert@swiecki.net

My personal WWW page – <http://www.swiecki.net>

2 Education:

2005 - – Warsaw University of Technology, Faculty of Electronics and Information Technology, Institute of Telecommunications (planned M.Sc. thesis - Port of the Phoenix-RTOS for PowerPC32 microprocessors architecture)

2000 - 2005 – BSc. Warsaw University of Technology, Faculty of Electronics and Information Technology, Institute of Telecommunications (B.Sc. thesis - Study of the security and scalability aspects of BGP v4)

3 Work experience:

2007 - now - Google Inc., Information Security Engineer

2004 - 2007 – ATM S.A. <http://www.atm.com.pl>, Solutions Architect/Security Consultant (R&D Department), embedded systems development, HPC clusters, network/software security audits, systems programming

2002 - 2004 – Warsaw University of Technology Computer Center <http://www.coi.pw.edu.pl>, Systems and Network Administrator – member of the network support team, responsible for WUT's CC computer network, network services and creating and deploying its security policy

4 Skills and abilities:

4.1 Programming skills

knowledge of the programming languages: C, C++, sh, Perl, PHP, Java, asm (PowerPC, m68k, IA32)

Linux/BSD family kernel programmer (esp. security/network issues)

operating systems programmer – member of the Phoenix-RTOS core-team.

in-depth knowledge abouts the underlying aspects of the modern operating systems (the memory and processes' management, device drivers, interrupts etc.) and the internal CPUs' design

4.2 Software and network security

ability to analyze systems and computer applications, in-depth knowledge of exploiting technics: buffer overflow, off-by-one bug, format bugs, signal races and those related to the WWW infrastructure; knowledge of forensic analysis technics; security research (e.g. CVE-2007-1734, CVE-2007-2391, CVE-2007-3819, CVE-2007-4224)

knowledge of penetration tests technics, security audits, black-box testing and hardening of the computer and telecommunications infrastructure, experienced with working for polish leading telecom operators, financial institutions and web portals

knowledge of theoretical fundamentals of cryptography, ability to create solutions based on the cryptographical protocols (programming with SSL/TLS layer), knowledge of PKI, X.509, GPG/PGP, IPSec standards

Polish security clearance „Restricted” (valid thru 2015)

5 Papers/Seminars/Projects

- my programming projects are available at <http://www.swiecki.net> and <http://www.phoenix-rtos.org>
- paper (polish only version) ATMOSFERA 2/05 - HPC cluster for PNSC <http://www.atm.com.pl/index.jsp?pageid=391>
- seminar „Security aspects of WLAN networks” (VI.2004), WO@PW - <http://wo.student.pw.edu.pl>
- case study „Network security techniques” (XII 2004) - WO@PW
- European Union Structural Fund Programme’s trainer: „The security of software applications” and „The security of computer networks” courses

6 Additional information

- member of the executive committee WO@PW – <http://wo.student.pw.edu.pl> (2004 – 2006)
- languages
 - polish - fluent, native speaker
 - english - fluent, non-native speaker
 - german, russian - novice level