

EMMANUELE ZAMBON

PERSONAL INFORMATION

Birth date: 27 November 1980
Birthplace: Vicenza (VI) - Italy
Residence: Mirastraat, 93 - 7521ZG Enschede. The Netherlands
Nationality: Italian
Telephone: +39 320 1822984
E-mail: emmanuele.zambon@utwente.nl

STUDIES

In October 2002: Laurea Triennale in Informatica (BSc in Computer Science) with 110/110 cum laude mark, at Ca' Foscari University of Venice

In March 2005: Laurea Specialistica in Informatica (MSc in Computer Science) with 110/110 cum laude mark, at Ca' Foscari University of Venice

Relevant courses:

- Computer networks and network protocols
- Cryptography
- Software Engineering
- Statistics & Probability

From September 2006: PhD student at the University of Twente. Research topic: Information Risk Management.

JOB EXPERIENCE

ATP Telecomunicazioni Sarcedo (Vicenza - Italy) from June 2000 to August 2000. Activities:

- Surveys on radio links
- Maintenance of telecommunication gears

GlobalComm S.r.l. Sarcedo (Vicenza - Italy) from June 2001 to August 2001. Activities:

- Development and deploy of software for quality tests on aquarium devices

Freelance in 2003. Activities:

- Design and develop of a financial planning software for real estate companies.

KPMG Italia S.p.a. (Information Risk Management division), from 2003 September to 2004 September. Activities:

- Penetration tests (ethical hacking)
- Risk assessment
- IT Audit support
- Design and building of Intrusion Detection Systems

- Application develop on the J2EE platform

ValueTeam S.p.a.: consultant at Telecom Italia S.p.a. (Business Support System division) from April 2005 to August 2006. Activities:

- Technical and Architectural consulting, design of distributed architectures for accessing telephone traffic data.
- Analysis and testing of data loading processes into a telephone traffic database.
- Analysis and testing of a JAVA/STRUTS-based web application for accessing large amounts of telephone traffic data.
- Analysis and testing of integrated telephone traffic post processing systems.

LANGUAGES

Italian - mother tongue.

English - good understanding, speaking and writing.

TECHNICAL SKILLS SUMMARY

Operating Systems

Microsoft Windows for workstations (9x – XP - Vista)

Microsoft Windows for servers (NT - Server 2003)

Linux: system and kernel configuring, system programming

Unix: shell scripting

Programming

Imperative and object oriented programming languages. Practice in C, C++, Java, LabView code, Pascal, Modula 3, C#, PHP.

Networking

ISO/OSI stack and TCP/IP suite.

In-depth experience in SMTP, IMAP, HTTP and Peer-to-peer protocols.

Cisco routers configuration.

Distributed application programming, with web services technology.

Database

Creation, using and maintenance of relational databases, using Oracle, MySQL, Interbase/Firebird DBMS.

SQL query tuning for Oracle and MySQL using execution plans.

Data loading processes in Oracle and MySQL (SQL loader, external table).

Large dataset management using tables partitioning.

Programming of stored procedures in Oracle (PL-SQL) and MySQL.

Algorithms for association data mining, data clustering and classification.

Hacking

Attacks on cryptographic algorithms and protocols.

Security tools: Ethereal, TcpDump, Nmap, Ettercap, Nessus, Shadow Security Scan, Internet Security Scanner, Solar Winds, Essential Network Tools, Retina Vulnerability Scanner.

Risk Management

IRM standard methodologies: ISO 17799 – 27001, COBIT

BS25999 standard methodology for Business Continuity Planning

PROJECTS

Applications in C++, Java, C# and LabView.

Development of web applications, both on J2EE platform and PHP, using Oracle, SQL Server, MySQL and Interbase/Firebird DBMS for data storage.

As a KPMG - Information Risk Management employee:

- Design and implementation of a network traffic monitoring tool
- Installation and configuration of Intrusion Detection systems (Snort and other commercial software) and log correlation tools
- Implementation of KARISMA (Kpmg Advanced RISK Management), a tool for supporting Risk Assessments of Information Systems.

PUBLICATIONS

Bolzoni, D. and Zambon, E. and Etalle, S. and Hartel, P.H. (2006) *Poseidon: a 2-tier Anomaly-based Network Intrusion Detection System*. In: 4th IEEE Int. Information Assurance Workshop (IWIA2006), 13-14 Apr 2006, London, UK.

Zambon, E. and Bolzoni, D. and Etalle, S. and Salvato, M. (2007) *Model-Based Mitigation of Availability Risks*. In: Second IEEE/IFIP International Workshop on Business-Driven IT Management, 21 May 2007, Munich, Germany.

Zambon, E. and Bolzoni, D. and Etalle, S. and Salvato, M. (2007) *A model supporting Business Continuity auditing & planning in Information Systems*. In First International Conference on Global Defense and Business Continuity (ICGD&BC 2007), 1-6 July 2007, Silicon Valley, USA.