

# EMMANUELE ZAMBON

## PERSONAL INFORMATION

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Birth date: 27 November 1980  
Birthplace: Vicenza (VI) - Italy  
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## STUDIES

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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

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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

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Italian - mother tongue.

English – very good understanding, speaking and writing.

## TECHNICAL SKILLS SUMMARY

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### 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, object oriented and functional programming languages.

Practical experience in C, C++, Java, LabView code, 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.

### Database

Practical use of Oracle, MySQL, Postgres DBMSes.

Advanced tuning for Oracle and MySQL.

Algorithms for association data mining, data clustering and classification.

### Hacking

Practical experience on penetration testing and application vulnerability tests.

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

### Risk Management & Business Continuity

Certified Risk Assessment Practitioner (the certification process is based on the BS 7799-3 standard).

Familiar with standard methodologies: ISO 17799 – 27001, NIST SP 800-30/100, COBIT, ITIL, BS25999.

## PROJECTS

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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

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Morali, A. and Zambon, Emmanuele and Etalle, S. and Wieringa, R.J. (2010) *CRAC: Confidentiality Risk Assessment and IT-Infrastructure Comparison*. In: Security & Privacy Silver Linings in the Cloud, 25th IFIP International Information Security Conference (SEC 2010). Springer Verlag.

Morali, A. and Zambon, Emmanuele and Houmb, S.H. and Sallhammar, K. and Etalle, S. (2009) *Extended eTVRA vs. Security Checklist: Experiences in a Value-Web*. In: 31st International Conference on Software Engineering - Companion. IEEE Computer Society Press.

Morali, A. and Zambon, Emmanuele and Etalle, S. and Overbeek, P. (2008) *IT Confidentiality Risk Assessment for an Architecture-Based Approach*. In: Third IEEE International Workshop on Business-Driven IT Management. IEEE Computer Society Press.

Zambon, Emmanuele and Bolzoni, D. and Etalle, S. and Salvato, M. (2007) *A model supporting Business Continuity auditing & planning in Information Systems*. In: Second International Conference on Internet Monitoring and Protection (ICIMP). IEEE Computer Society Press

Zambon, Emmanuele 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. IEEE Computer Society Press.

Bolzoni, D. and Zambon, Emmanuele 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). IEEE Computer Society.