

STEFANO MARINONI

CURRICULUM VITAE (July-09)

Address: Via Ronchi, 16
Milan - 20134
Italy

Mobile: +39 328 21 94 753

Office: +39 025 96 29 257

Home: +39 034 63 33 33

Web: www.tcs.hut.fi/~marstefy

E-mail: ste.marinoni@gmail.com

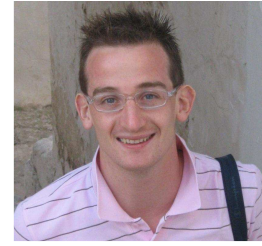
Date of Birth: 14-12-1979

Place of Birth: Clusone

Nationality: Italian

Marital status: Single

Sex: Male



SUMMARY

- Industry experience working extensively with the design and development of Web Service Security Systems, advanced XML technologies, SOA patterns, heterogeneous ICT System integration. Extensive experience working with telecommunication systems, and network simulation tools.
- Experienced in handling multiple customers in parallel, enhancing collaboration among virtual technical teams, readily write advanced technical reports and documentation in general.
- Author of multiple scientific publications and ICT technical papers; recipient of telecommunication scholarships in academic research programme, M. Sc, B. Sc. as well as professional traineeship.
- Programming proficiency in C, C++, Java, J2EE etc.

WORK EXPERIENCE

- **IBM, Italy, Milan. (Sept. 2006 – Now)**

Employment while attending a Master programme. Websphere Technical Sales; sales engineer to raise awareness of IBM Websphere Software Offerings in the area of Web Service Security, and Integration. Web Services security at the application layer (WS-* framework, XML threat protection, WSDL) and Service Oriented Architecture (SOA) specialist. Integration, and Optimization of heterogeneous IT systems based on SOA patterns. My focus is on Websphere specific connectivity infrastructures that secure, and integrate Web Applications and Services. Design, Development and Implementation of advanced Enterprise Service Bus functionalities such as user authentication and authorization, Content Encryption, Digital Signatures, WS-security framework, data validation, data transformation, data integration, application logging, message routing etc. using both the IBM DataPower hardware platform built on purpose, and Websphere Application Server. XML and SOAP messaging. SSL Security protocols, digital signing and Cryptographic algorithms. Web Application Firewalling.

As important recognition within the technical community, I authored a few publications of technical articles/contents on top IBM development resources.

- **Helsinki University of Technology, Finland, Helsinki. (Oct. 2004 – July 2006)**

Telecommunication researcher at the laboratory for theoretical computer science as member of the Mobility Management research group. MANET realistic simulation through Network Simulator 2 (C++), hierarchical Routing Protocols design, optimization, testing, Signalling Protocols, Entity/Group Mobility Models, Radio Signals Propagation, Network Performance Analysis, Security Issues. Personal Area Network (PAN) technology.

As important recognition within the academic community I published findings in important IEEE telecommunication journals, and conferences.

- **Gruppo Clas S.r.l, Italy, Milan. (May 2000 – Sept. 2003)**

Employment while attending university; software engineer in the field of database management (UML, SQL, Visual Basic, XML, and Oracle Isql*Plus). Design, Development, and Maintenance of commercial, web-based software. Leading position in the developers team.

EDUCATION

- **MIP School of Management, Italy, Milan** – Attending a Master Programme in Business Administration, with specialisation on “Project Management”. The programme started on April 2007 and it is expected to end within September 2009 (fellowship funded by IBM).
- **University of Studies of Milan, Italy, Milan** – M.Sc. (5 years - Tech.) in Computer Science, with specialisation “Architectures of Distributed Elaboration Systems”; Master’s thesis (completely developed while working in Finland into a relevant telecommunication project) graded as excellent. Grade Point Average: Very Good, final grade 104/110, July 2005.
- **Helsinki University of Technology (HUT), Finland, Helsinki** – Exchange student, Erasmus program, language and telecommunication courses attendance, Sept 2003 to Aug 2004 (scholarship based on academic excellence).

SELECTED PUBLICATIONS

- Contributor of “Getting Started with WebSphere MQ File Transfer Edition V7” (an IBM red-book), Publisher: IBM press, ISBN: 073843325X – July 2009.
- Journal article, “Managed file transfer for SOA: A complete solution using WebSphere DataPower, WebSphere MQ, and WebSphere Service Registry and Repository”, Websphere Developer Technical Journal (IBM Websphere Publishers) – July 2009.
- Journal article series, “WebSphere Transformation Extender and Datapower: Data Integration Using Websphere Design Studio”, Websphere Developer Technical Journal (IBM Websphere Publishers) – Mar 2009.
- Journal paper, “Ad Hoc Routing Protocol Performance: a Realistic Simulation Based Study”, special issue of the “Telecommunication Systems Journal (Springer Publishers)” – Nov. 2006. ISBN: 1018-4864 (Print), 1572-9451 (Online).
- Conference paper “Dynamic Local Clustering for Hierarchical Ad Hoc Networks”, In the Proceedings of the 3rd International Workshop on Wireless Ad Hoc and Sensor Networks (IWWAN '06), New York, USA, 28th – 30th June 2006. Publisher: IEEE Communications Society Press. ISBN: 1-4244-0626-9.
- Conference paper “Ad Hoc Routing Protocol Performance in a Realistic Environment”, In the Proceedings of the fifth IEEE International Conference on Networking (ICN '06), Le Morne, Mauritius, 22nd – 29th April 2006. Publisher: IEEE Computer Society Press. ISBN: 7695-2552. *Awarded as one of the ten best papers.*
- M. Sc. Thesis “Performance of wireless ad hoc routing protocols - A simulation study in realistic environments” Milan University & HUT, July 2005.

LANGUAGE SKILLS

- Italian (Fluent)
- English (Fluent)
- Finnish (Elementary)

IT SKILLS

- **Web Service, Web Applications and Web Security Engineering systems**
Experienced with J2EE Web Service and messaging protocols (MQ, JMS, HTTP), usage of Websphere runtime, Eclipse based IDE (such as RAD). Advanced knowledge of WS-security framework, Access Control Protocols and registries (LDAP), data encryption frameworks.
- **Telecommunication, Networking and Protocols**
Proficiency with networking lab equipment, software, simulation tools, and IP performance evaluations. WLAN, PAN, Blue-tooth, Access Point selection methods, hierarchical routing, OLSR, DSR, AODV, DSDV, TCP/IP, UDP, 802.x, Wi-Fi, multicast.
- **Database**
Proficiency with database designing tools, SQL, E/R diagrams, electronic sheets, and implementation interfaces; MS Access, Oracle DBMS, and basic DB2. Foundations of SAS.
- **Programming (OO, Imperative and Declarative)**
C, C++, UML, Java, Visual Basic, VB for application, Tcl, Otcl, Tk, XSLT, Pascal, Delphi.

- **Applications**
Oracle Isql*Plus, XML, LabView, WSDL, Cygwin, Matlab, Derive, SSH client, Dia, RAD, Eclipse, Websphere, Datapower, WTX.
- **Machine's languages**
Assembler 8086, assembler mips R4000, assembler Z80.
- **Operating systems**
Windows XP, NT, 9x, 3.x, DOS, Unix, Linux Debian, RedHat and Ubuntu.
- **General Purpose tools**
MS office, OpenOffice, Outlook, Lotus Notes, MS Publisher, Mlyx, Latex, X-fig, Pine, Smart-Draw, Xgraph, SSH client.

TECHNICAL CERTIFICATIONS AND AWARDS

- IBM professional SOA Associate certification, January 2008.
- "One of the then best paper award", ICN 2006 (International Conference on Networking), IEEE Computer Society 2006.

OTHER

- **Military obligations:** exempted from military service.
- **Driving licences:** European for passenger cars, and for every kind of motorcycle.
- **Interests:** communication systems - their architecture and protocols, pervasive computing, bio-medical technologies, semantic web. Getting to know different cultures.
- **Hobbies:** swimming, downhill skiing, soap box rally, volley-ball, live concerts, travelling

PREVIOUS PROJECTS

- **Service Oriented Architecture and WS framework**
Design, formalization and implementation of a complete model for quantitatively evaluating the economical returns of a SOA investment. Design and implementation of a thorough ESB Gateway solution featuring Websphere Datapower to connect a variety of heterogeneous systems such as WSRR, LDAP, WAS (WS-Policy for security access management).
- **Web Service Security, and Integration**
Design, Delivery and Documentation of various Advanced Proof of Concepts dealing with: web advanced access control, data confidentiality, data integrity, integration of heterogeneous data formats, XML processing and acceleration, XML threat protection, B2B application auditing.
- **Networking with Network simulator NS2- Tcl - Otel and C/C++**
Design, implementation, and test of a realistic pattern for wireless ad hoc networks (Mobility algorithm, Radio Propagation Model). Hierarchical routing protocol design and implementation (clustering algorithms). Client/Server e-commerce shop with socket architecture.
- **Database management and design**
Implementation of a plenty of general purpose software: movie theatre, a flights system and a dentist clinic with a web interface using Oracle. Implementation of data analyser tools to collect surveys.
- **Visual Basic and XML**
Implementation of a parser for XML to convert archives from XML format to Microsoft Database Base format. Development of plenty of XSLT stylesheets.
- **UML, Java programming**
Design of an UML didactical tool in Java to model use-case, instance and object diagrams.
- **Algorithms and data structures designing – C++**
Development of several applications such as a dictionary with optimised searching, sorting, insertion and removing algorithms following different metrics. Developed a checkers game as well as many other less relevant software packages.
- **Delphi programming**
Developed a tool with graphical interface for windows to dial with state diagrams with finite states (Automatons). The software system dealt with Mealy-Moore diagrams.
- **Concurrent programming - mpi**
Implementation of several producer/consumer fashion applications. Threads Java.
- **Low level programming - assembler 8086 - Mips R4000**
Developed several applications such as a calculating machine, a naval battle with a simple graphical screen interface for DOS. Designed a remote control for a toy car.

EXTRACURRICULAR COURSES and ACTIVITIES

- Websphere Software University, Connectivity track (IBM, Madrid, January 2009)
- Web Service Development for WAS 6.1 using RAD 7.0 (IBM, Milan, October 2008)
- Websphere Service Technical Conference (IBM, Las Vegas - NV, May 2008)
- Project Work, Design of a model for quantitatively evaluating the returns of a SOA investment (IBM, and MIP, April 2008)
- Websphere Software University, Datapower track (IBM, Paris, February 2008)
- XML Programming and web Application (IBM, November 2007)
- Websphere Application Server – Administration on Windows (IBM, November 2007)
- DB2 Overview course – Generic DB2 Developer Skills (IBM, June 2007)
- DB2 & Web 2.0 – DB2 and Ruby on Rails (IBM, June 2007)
- Postgraduate course in Theoretical Computer science – Network Simulation (HUT 2005)
- Google code jam 2004. A software developing competition.
- Embedded systems course (Helsinki University of Tech. 2004)
- English through Internet (Helsinki University of Tech. 2004)
- English for every day use (Helsinki University of Tech. 2004)