Claudio SALMIN

Curriculum Vitæ

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Education

Oct 2009 – Aug 2010   **Master of Science in Ubiquitous Networking and Computing**, *University of Nice*, Sophia Antipolis, France.

Coursework: Performance Evaluation for Networks, Peer to Peer Systems, Evolving Internet, Algorithms for Telecommunications, Compute and Data Grid, Secure Diffusing, Middleware for Ubiquitous Computing

Sep 1999 – Apr 2005   **MS Degree (Laurea Magistrale) in Telecommunication Engineering**, *Politecnico di Torino*, Turin, Italy, **grade:** *108/110*.

Thesis: *Analysis, methodology and algorithms for the evaluation of the extensive QoS in the mobile environment.* Coursework: Chemistry, Mathematical analysis, Linear Algebra and Analytic Geometry, Programming techniques and languages, Fundamentals of computer science, Mechanics, Thermodynamics, Series of functions, Electromagnetism, Multivariate calculus, Wave-like phenomena, Fundamentals of programming, Basic circuit theory: fundamentals, Probability, Probabilistic and statistic models, Numerical methods, Basic circuit theory: linear dynamic circuits, Processing systems, Algorithms and data structures, Determined signal theory (Tlc), Electronics, Distributed parameters circuits (Tlc), Random signal theory (Tlc), Analog modulations (Tlc), Introduction to wireless systems: numerical electromagnetism, Digital modulations (Tlc), Applied Acoustics and Light Technique, Electromagnetic wave radiation and antennas, Digital electronics (tlc), Channel codes, Telecommunication circuits, Protocols for telephony and data networks, Object-oriented programming, Accounting and investments, Dynamic systems analysis (Tlc), Metallic and dielectric wave guide, Control systems design (Tlc), Network architectures and protocols, Industrial automation theory, Transmission systems design and simulation, Radionavigation systems, Applied case study, Dgital transmission on real channels, Mobile communication networks, Teletraffic theory, Strategy and management, Introduction to Electronic Measurements, Network and protocol simulation, Radio links and satellites.

Experience

Mar 2010 – present   **Intern**, *INRIA*, Sophia Antipolis, France, Routing in Quasi-Deterministic (**DTNs**) Delay Tolerant Networks.

Delay Tolerant Networks (DTNs) are mobile wireless networks in which most of the time there is not a complete path between the source-destination pairs. Due to such intermittent connectivity, the routing protocols for DTNs utilize the **store-carry-forward** paradigm where intermediate nodes have to carry the packets in their buffers until the packets are delivered to the destination or forwarded to another intermediate node. In order to increase the probability of delivery and decrease the expected end-to-end delivery delay, the protocols may choose to replicate the packets and multiple copies of a packet may roam around the network. Current solutions to routing problem in DTNs have merely considered the two extreme cases where node mobility is deterministic and known in advance or node mobility is completely random and cannot be predicted.

Jul 2007 – Sep 2009	**Software Engineer**, *Amadeus*, Sophia Antipolis, France, Member of Rail team.

Rail team is responsible for developing a **SOA** (Service-Oriented Architecture) application to distribute and be the inventory of railways companies. The SOA is developed in **C++** under Unix machines (Back End), the data exchanged between the applications are wrapped in **XML** or **EDIFACT** messages.

Responsible for the network configuration and integration of the application in Amadeus System. Rail application is a distributed platform and is completely integrated in Amadeus System, it is connected with several external providers and inventory systems (Rail IT). The application is able to support **HTTP**, **SAOP XML** and **EDIFACT** messages over **TCP/IP** and **CIL T-CIL**. The **CMMI** standard is followed for the quality software process. The team introduced new internal processes in order to make more efficient the working environment and the grammar distribution to external teams.

The application is tested using an Amadeus proprietary tool; on top of this tool a regression framework based on **python-XML** scripts have been built.

Coordination with Product Definition Team and Selling Platform Team in order to avoid and predict some issues.

Mar 2006 – Jun 2007	**Software Engineer**, *Motorola*, Turin, Italy, Member of Low Level Service (LLS) team.

LLS feature team is responsible for developing, validating and maintaining a specific set of software components across a variety of **Motorola phones**. The code is developed in **C/C++** and the environment was under Unix Machine with debugger and simulator; Rational ClearCase for the version control is used.

In order to improve the organizational ability, to predict business results, and to have a process framework for continuous improvement activities, **SEI-CMM** (Capability Maturity Model) was followed. Planned development activity (Life Cycle Model).

Experience of six months in the **USA** at the Libertyville, IL, branch of Motorola. Attended training on Multimedia Memory Card driver code. Worked on File System phone code.

May 2005 – Feb 2006	**Tester Engineer**, *Motorola*, Turin, Italy.

Tested the Browser application of the mobile phone, test of the new features of the application and of the configuration needed to communicate with the network, like session profile with APN, DNS, Proxy, Port.

Developed a special costumer services for Vodafone Italy, this service allowed the final user to visualize short messages on the mobile terminal using UDP push on the BCCH.

Jul 2004 – Apr 2005	**Intern**, *Telecom Italia Lab*, Turin, Italy, Analysis, methodology and algorithms for the evaluation of the **extensive QoS** in the mobile environment.

Model analysis and development to analyze, on board a radio-mobile terminal, the quality of service that the end user can perceive. Quality of service measured for **MMS** services, read **3gpp documentation** in order to understand the service.

Statistical analysis of the results. Graphical display of those statistics on **Web-Server** using dynamic pages **JSP** (JavaServer Pages).

Data from this study were used to elaborate MS thesis at Politecnico di Torino.

Languages

Common European Framework of Reference (CEFR) for Languages

Italian	**Native**	
English	**Fluent**	*Listening C1, Reading C1, Spoken int. B2, Spoken prod. B1, Writing C1*
French	**Fluent**	*Listening C1, Reading C1, Spoken int. B2, Spoken prod. B1, Writing B1*

Computer skills

Programming Languages	Bash scripting, C, C++, Java, JSP, Matlab, Python, SQL
Operating Systems	Linux , Windows

Others	HTML, Latex, Web Services, XML, CVS, Clear Case

Awards

Oct 2009 – Feb 2010	Ubinet Scholarship. Master IFI in Ubiquitous Computing (INRIA). University of Nice, France.
Sep 2002 – Jul 2003	Part-time Collaboration. Politecnico di Torino, Italy. Taught younger students lab tests for the following courses: "Electromagnetic wave radiation and antennas" and "Metallic and dielectric wave guide".
Sep 2003 – Jul 2004	Part-time Collaboration. Politecnico di Torino, Italy. Provided counseling for students at the University of Turin. The position was sponsored by the Administration Office of the University.

Interests

Swimming	Attended swimming classes since the age of 3 for 12 years. Member of a competitive swimming team for 2 years. 50 meters butterfly stroke: 1 silver and 1 bronze medal in the Master U.I.S.P. championship 2005/2006. 400 meters freestyle: 1 bronze medal in the Regional Master U.I.S.P. competition 2006.
Football	Member of a football team for 2 years (1997/1999). 3rd category championship.
Reading	Especially historical, science fiction novels and self developement books.