

MARCO SCALONI

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Summary:

- Telecommunications specialist
- Home Network and Terminals engineer
- Embedded Systems Analyst and Designer
- Software architect and developer
- Electrical Engineering and Computer Science researcher

Action oriented and result focused ICT professional, I'm particularly interested in advanced software architecture and networking.

Also attracted to organizational aspects and public relations, I'm interested in new experiences in web technologies, team management and Project Management as well.

Promoter of public cultural activities, supporter of Open Data, Open Government and Free Software, I'm one of the founders of InformaEtica (www.informaetica.it), www.scaloni.it/popinga, LibriSenzaCarta.it and www.ScriptaVolant.info

Specialties:

- Programming: C/C++; Python, PHP; SQL; XML/XSD, HTML, JavaScript; Shell scripting (Unix & MS-DOS/Windows); Pascal; Prolog; Lisp;
- Networking protocols: stack TCP/IP, PPP, Ethernet, SIP, SDP, RTP, RTCP, HTTP, DHCP, STUN, SNMP, SOAP, Web Services, VoIP technologies; CWMP and TR-069.
- Smart Card: ISO 7816, T=0 & T=1 protocols, PC/SC specs, PKI, PKCS;
- OS: Windows 2000/XP, Linux, Solaris, vxWorks;
- Applications: MS Office, MS Project, OpenOffice.org
- Software Development: GNU make, nmake, Tornado, Eclipse, Source Insight
- Revision control and bug tracking: CVS, Subversion, Bugzilla, GForge, Trac
- Content Management Systems: WordPress, Drupal
- Frameworks: Django (Python), Symfony (PHP), SystemC (C++)
- Project Management

Experience:

Senior Software Engineer - Team Leader

Aethra (www.aethratlc.com)

March 2007 – present

- Team leader, responsible for analysis and development of software components implementing system configuration, control and Application Programming Interface.
- Software analysis and development for telecommunication products, in the Research & Development team. I've been working on VoIP subsystem (in particular SIP e SDP) and management interfaces (web, SNMP, TR-069, UPnP, command line).
- Scouting e analisis for new services, components and solutions (e.g. on IP-PBX, SIP, core system architecture, system management).
- Speaker in internal training course (Asterisk, SIP, Trac, Subversion).
- Installation and administration of internal tracking and versioning system (Trac, Subversion)

Network Engineer

Telecom Italia (www.telecomitalia.it)

April 2006 – March 2007 (12 months)

Writing technical requirements and specifications for Home Network and IP terminals: Broadband 3-play routers, VoIP phones (for voice and video), Set-Top-Box, Dual Mode phones (Wi-Fi + GSM), innovative products.

Designing and monitoring of tests for vendors' prototypes and products. Identifying and investigating malfunctions. General support of Testing Labs activities.

Providing technical guidance and direction to Field Services.

Scouting and engineering of new Handsets and Technical solutions.

VoIP & software engineer

Telecom Italia (www.telecomitalia.it)

February 2004 – March 2006 (2 years 2 months)

Development of an innovative VoIP cordless telephone for SoHo and residential users, produced by Pirelli and deployed by Telecom Italia for its new "Alice Mia" services and Advanced Personal Telephony.

In particular I was involved into:

- definition of whole device software architecture and services specs;
- software analysis, development and integration;
- management of technical collaborations with all suppliers and project owners.

DRM specialist / Software Analyst & Developer

Telecom Italia Lab (www.telecomitalia.it)

October 2003 – March 2004 (6 months)

Research and prototyping of a smart-card enabled residential gateway, for innovative Digital Rights Management.

I was involved into smart card integration, software analysis and development. Main matured skills: DRM solutions, OMA licences, Web Services, Embedded Linux.

Smart Card specialist / Software Analyst & Developer

Telecom Italia Lab (www.telecomitalia.it)

January 2003 – November 2003 (11 months)

Development of an advanced Access Gateway for SoHo and residential users, produced and distributed by Pirelli and Telecom Italia for broadband ADSL and new home-networking services.

I was involved into device specs definition (particularly remote management procedures), software analysis and development, most of all to integrate Smart Card technology (PC/SC stack and protocol T=0).

xDSL specialist / Software Analyst & Developer

Telecom Italia Lab (www.telecomitalia.it)

February 2002 – January 2003 (1 year)

Software analyst and developer of xDSL technologies, built on a System-on-a-Chip environment. Main matured skills: ADSL/ADSL2 specs, C++ and SystemC programming, software portability, Unix OS, revision control systems (CVS), project management techniques.

Teacher

IPSIA High School (Public Educational Institution)

November 2000 – January 2001 (3 months)

Teacher of both Electrical Engineering and Cybernetics at IPSIA (Professional High School) in Senigallia (AN). The effort was 15 hours per week.

Telecommunication Researcher

University of Ancona (Research and Educational Institution, www.univpm.it)

October 2000 – November 2000 (2 months)

Telecommunications researcher upon Channel Coding.

Main research goals were to study the performances of Concatenated Conconvolutional Codes (Turbo Codes and SCCC) for high Signal-to-Noise ratios and to find optimal Channel Codes.

Some results were published in:

Roberto Garelo, Franco Chiaraluce, Paola Pierleoni, Marco Scaloni, and Sergio Benedetto: "On error floor and free distance of turbo codes". Proceedings of IEEE International Conference on Communications, ICC2001, Helsinki, Finland, June 2001, pp. 45-49.

Education:

Embassy (www.britishembassyschool.it)

Upper Intermediate Level Course, 40 hours, English, January – April 2008

Telecom Italia Learning Services & Polytechnic of Turin

(www.tils.com / www.polito.it)

Master in Telecommunication, November 2002 – October 2004

Lessons were splitted into four periods, each of them was four weeks long. The total duration of Master was four months. Due to full-time lessons, regular work at Telecom Italia Lab was suspended during the courses.

Activities and Societies: Fundamentals of information theory and telecommunications, fixed networks (ATM, IP, MPLS) and mobile networks (GSM, GPRS, EDGE, UMTS), network architectures (circuit and packet networks - access and transport), protocol stacks, QoS, company organisation, project management, communication and speaking

Communications (www.communications.it)

Intermediate Level Course, English, December 2003 – April 2004

Università Politecnica delle Marche (www.univpm.it)

Electronics Engineering, 1994 – 2000

Magna Cum Laude 110/110

Liceo Scientifico "Enrico Medi" (www.liceomedi-senigallia.it)

High School in Senigallia (AN) - Italy, 1989 – 1994

Final result: 54/60

Additional information:

Websites:

My Blog: www.scaloni.it/popinga

My Website: www.scaloni.it

My Company: www.aethratlc.com

Interests:

Computer science, programming, internet, blogs, open data, anthropology, history, politics, reading, music, ping-pong, volleyball, fitness

Groups and associations:

Transnational Radical Party, OpenPolis Association (associazione.openpolis.it), www.scaloni.it/popinga, LibriSenzaCarta.it