

Gianpaolo Macario - Curriculum Vitae

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Contact Details

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Professional Experience

June 2006-present: Magneti Marelli Electronic Systems - Venaria Reale (TO).

- Jan 2012-Present: Representing Magneti Marelli within the GENIVI Alliance (www.genivi.org), with the objective of standardizing the requirements and the architecture of a common Linux-based automotive Infotainment Platform:
 - Lead Architect of the System Infrastructure Expert Group (SI-EG)
 - Voting Member of the System Architecture Team (SAT)
 - Voting Member of the Compliance Team
- Jul 2008-Dec 2012: Appointed Software Platform Leader for the development and productization of the new Linux-based platform for Magneti Marelli Electronic System infotainment products. Reporting to MMES Navigation and Infotainment Product Development Coordinator.
- Oct 2007-Jul 2008: Took responsibility of the MM team targeted at developing and integrating an A-Sample product for the next generation of infotainment systems for a top German car maker. The product was developed on a reference hardware design provided by a lead US Silicon Vendor, with a production-grade Embedded Linux distribution and third-party middleware. MM activities focused on application development, system integration and validation. The brilliant results of this activity influenced the decision of MM and the partners to move on to the productization phase.
- Oct 2006-Jun 2008: Started up and coordinated an innovation project aimed at defining and prototyping an Open Source embedded software platform for Magneti Marelli in-vehicle infotainment units. The activity was carried out with internal resources and the cooperation of Politecnico di Torino, Department of Control and Computer Engineering (www.dauin.polito.it).
- Jun 2006-Jun 2007: Technical Leader in a joint project together with a lead Telco operator to develop and deploy telematics services in the automotive space.

July 2005-May 2006: Comau S.p.A. - Grugliasco (TO). ICT Manager

- After the termination of the Joint Venture between IBM and Fiat I was reassigned to the ICT Department of the Robotics Business Unit of Comau S.p.A., where I became responsible of the operations and the evolutive maintenance of an enterprise application for Product Lifecycle Management.
- Related products and technologies: MatrixOne eMatrix, BEA WebLogic, Oracle, J2EE, XML.

April 2002-June 2005: GlobalValue (an IBM and Fiat Company) - Torino. Senior Consultant - Telematics and Wireless Solutions

- Provided training and consulting to an European automotive Tier-1 Supplier and automotive Research Center on embedded software development, Linux and Java for an innovative telematics project developed within the EU 6th Framework Programme.
Specific tasks being carried out: porting and optimization of an Embedded Linux distribution to custom target (ARM architecture), debug and adaptation of the Linux Bluetooth stack for a non-standard Bluetooth adapter, porting of the IBM J9 Embedded Java Virtual Machine.
- Worked jointly with an international IBM team (US, Korea, France) on a global telematics project for a leading Korean car manufacturer. Developed API, reference implementation software (J2ME, SWT) and

Eclipse plugins; organized the technology transfer workshop to the customer.

- Worked as instructor during a few workshops (US, Germany) about the IBM RFID middleware solution organized for J2ME/J2EE architects and developers.
Prepared workshop material and exercises, assisted and mentored students on IBM RFID Edge product and tooling.
- Worked as technical support of GlobalValue and IBM Client Executives on several opportunities involving wireless and telematics technologies. Organized technical meeting and workshops with customers, identified solution and worked on the architecture and the project sizing.
- In cooperation with IBM developed a feasibility study and a pre-production pilot of a service of Mobile Office Synchronization between heterogeneous mobile devices (PDAs, Smart Phones, etc.) and corporate servers via GPRS. The infrastructure was based on IBM middleware (WEA, WECM, etc.)
- Supported an Italian Car Manufacturer on a technical evaluation of MIDP and OSGi during the feasibility study of the next generation telematics in-vehicle solution, then led the Offering Team for the production phase.
- Developed the opportunity and achieved contract with the Research Center of an Italian Car Manufacturer to adopt IBM middleware (J2ME, OSGi) for an in-vehicle telematics project partly sponsored by the European Community.

February 1998-March 2002: Magneti Marelli Sistemi Elettronici - Venaria (TO). Senior System Engineer

- Ported and configured Embedded Linux on custom target hardware (x86 and Hitachi SH architectures).
- Designed the software architecture and led a team of developers to prototype a Java+OSGi-based in-vehicle telematics system running on production-grade hardware (Connect platform).
- Transferred technology and knowledge to company on: Open Standards, Internet Protocols, Web, WAP, Java, and Real-Time Operating Systems.

November 1992-January 1998: Società di Elettronica per l'Automazione (SEPA) - Torino. Design Engineer

- Responsible for RTOS porting and firmware design to custom hardware.

June 1992-July 1992: Hewlett-Packard Laboratories - Palo Alto, California. Summer Stage Intern

- Transferred Software Engineering Technology developed at Politecnico di Torino to HP Laboratories Database Department (languages: C, C++).

Foreign Languages

- English: very good in writing and speaking.
Frequent business trips to United States and across Europe.
Achieved Top Level of the Shenker Method (lesson 100/100) at The Shenker Institute of Turin.
- French: writing good, speaking sufficient (able to keep up a conversation)
- German: basic (since Oct-2007 attending a German course from Inlingua)

Education

1985-1992: Politecnico di Torino - Torino

- Admitted to third year of "Dottorato di Ricerca in Ingegneria Informatica e dei Sistemi" (Italian Ph.D.)
- Graduated in 1989 (110/110 Summa Cum Laude) in Electronics Engineering.

1981-1985: Liceo Scientifico G.Peano - Cuneo

- Diploma di Maturità Scientifica (60/60)

Personal Interests

- Internet, skiing, cycling, backpacking, attending kids on weekends...
- Linux and Open Source Software: advanced user since 1993 (Linux kernel 0.99).
I have developed some patches to the Linux Kernel, some of which (i.e. Adaptec SCSI driver, init module, Bluetooth stack) have been included in the official Linux source tree.
I have developed some Linux device drivers for data acquisition boards.
I have released some Linux packages (.rpm) that were then incorporated into well-known Linux distributions.
- I have designed and supervised the deployment of some Linux/Windows intranets for local small enterprises and no-profit organizations.