

Gianpaolo Macario - Curriculum Vitae

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Contact Details

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Summary

As a result of a number of successful projects and experiences I developed good problem solving capabilities and attitudes to quickly be proficient on emerging software technologies.

Goals: To engage in challenging projects based on innovative technologies with potential high returns to the organization.

Specialties: Software Architecture, Open Source Software Development Process, Project Management, Customer Relationship.

Technologies: Automotive Infotainment, Embedded Systems, Embedded Linux, Eclipse, UML.

Professional Experience

September 2012-Present: [Mentor Graphics, Embedded Software Division](#). Senior Member of the Linux Services team. Some activities performed:

- Working as consultant and technical advisor for leading Automotive OEMs and Tier-1s on both platform and product In-Vehicle Infotainment development projects. Focusing on the global software architecture, system infrastructure and application framework
- Lead Engineer inside the Dedicated Engineering team helping a Tier-1 supplier with the evolutionary maintenance of an embedded Linux distribution optimized for a custom target hardware based on the Freescale i.MX6 SoC. Focusing on BSP and system startup
- As part of a few customer services engagements, identified bottlenecks and optimized system builds of commercial Embedded Linux distributions based on Yocto Project and OpenEmbedded
- During the pre-sales process, architect responsible for gathering customer needs and requirements, then defining the solution and coordinating the technical proposal up to its delivery to the customer
- Acting as technical representative for Mentor Graphics within the GENIVI Alliance, ensuring coordination and alignment between the company product roadmap with the planned evolution of the GENIVI Platform Compliance specification

January 2012-Present: [GENIVI Alliance](#). Representing the mother company inside GENIVI covering the following roles:

- Architect of the System Infrastructure Expert Group (SI-EG)
- Voting Member of the System Architecture Team (SAT)
- Voting Member of the Compliance Team

Carried on several activities and projects including

- Started up and coordinated several public open source projects with a focus on: Embedded Linux, Android, Arduino and IoT.
- Managed cooperation and contribution with University postgraduates and researchers
- Giving talks about embedded systems and open source to public events, University lectures and international conferences

June 2006-August 2012: Magneti Marelli Electronic Systems - Venaria Reale (TO)

- July 2008: Appointed Software Platform Leader for the development and productization of the new Linux-based platform for MMSE infotainment products.
- October 2007: Took responsibility of the MM team tasked of the development and integration of an A-Sample unit 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.
- October 2006: Technical Leader in a joint project together with Telecom Italia 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, where I was 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.)
- 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 Reale (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.
Working as part of a distributed, multicultural team using English language for everyday business communication since 2012, with frequent business travels across Europe and to United States. Achieved the Top Level of the Shenker Method (100/100) at The Shenker Institute of English.
- French: writing good, speaking sufficient
- German: basic

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 advanced user since 1993 (Linux kernel 0.99).
- Open Source contributor whenever time permits: [My profile on Ohloh](#)