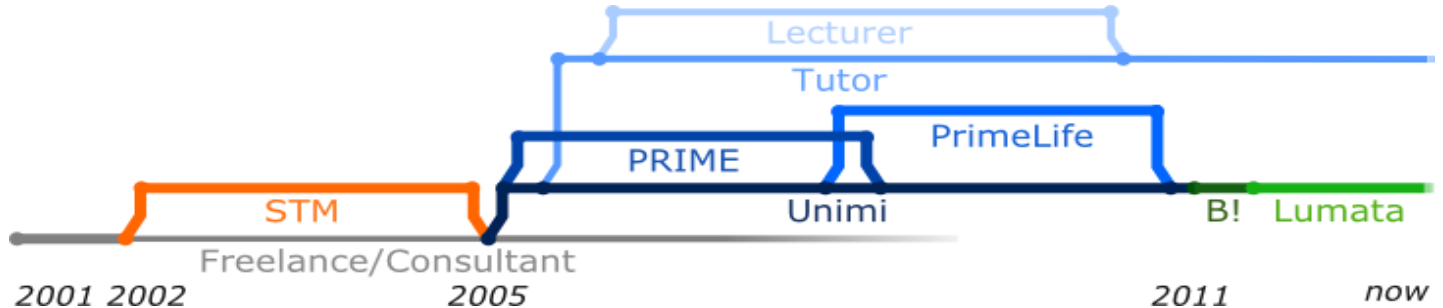


# Curriculum Vitae – Eros Pedrini



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**Gender:** Male  
**Date of birth:** 9th of February 1974  
**Full CV:** [http://www.e-p.name/files/eros\\_pedrini\\_cv\\_full.pdf](http://www.e-p.name/files/eros_pedrini_cv_full.pdf)  
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## Technical Team Leader Software Architect

### Skills/Expertise

*ActiveMQ Agile Android Design Pattern Eclipse Hibernate J2ee Java JMS JSON JUnits  
JS myBatis Linux MySql OOD OOP Python REST Scrum SOAP  
Software Engineering Spring Struts SQL Tomcat TTD User Story UML XML*



## Software Engineer

### Skills/Expertise

*Android C C++ C# Cryptography Design Pattern Eclipse Hibernate J2ME Java  
JUnits JS MySql OOD OOP PHP Privacy PostgreSQL REST SOAP  
Software Engineering SQL Tomcat UML VisualStudio Windows XML*

### Others

*6 Publications including an IEEE Transaction on Service Computing (TSC)*



## R&D Consultant

### Skills/Expertise

*ASM C C++ C# Cryptography Design Pattern DSP Java OOD OOP Privacy REST  
SOAP Software Engineering SQL SystemC UML Unix VHDL VisualStudio  
Windows XML*

### Others

*US Patent #7,333,675  
Method and device for extracting a subset of data from a set of data*

## Freelance/Consultant

### Skills/Expertise

*C C++ C# Design Pattern Java Linux MFC OOD OOP*

## Software Architect, Tech Leader, and Scrum Master

Lumata – Milano – Italy [November 2011 ..]

Buongiorno – Milano – Italy [August 2011 .. November 2011]

Initially, I was involved in the second development phase of the *Digital Marketing Platform* (DMP) project. DMP was a long-term project designed as a Java Web application, whose purpose was to provide facilities for campaign message scheduling along different channels (eMail, SMS, and MMS) and to allow an easy management of the campaigns them self. This second phase aimed at expanding the number of supported services introducing the support for interactive mobile campaigns.

My main responsibilities were: lead the development team, lead technical designs, analyze functional specifications, act as single-point-of-contact among the different parties involved in the project. My team was composed of 3 backend developers, 2 frontend developers, and 1 QA resource. A part from the leading activities, I was also directly involved in the backend development of the product.

In November 2011, the privately held company *Lumata* has been founded by the joint venture of *Francisco Partners* and *Buongiorno*. Lumata is a stand-alone company backed by Francisco Partners (70% holding) and Buongiorno (30%) to provide a seamless link for operators, brands, and hardware manufacturers to engage with their customers through mobile channels.

Currently, I am involved in a key project whose goal is to create a multi-tenancy, self-service platform to support *Above the Line* (ATL) and *Below the Line* (BTL) campaigns based on different communication channels (e.g., SMS, eMail, and *mobile push notification*). This project represents a complete solution for marketers to manage all the aspects of their mobile relationships, bringing together the currently fragmented mobile channels and delivering optimized messages across the entire device universe.

As Technical Team Leader and Software Architect, my main responsibilities are: lead the development team, lead technical design, analyze functional specifications, abstract the complexity of a system into a manageable model, produce the technical documentation needed for the project, and act as a single-point-of-contact among the different parties involved in the project. As Scrum Master, my main responsibilities are: remove impediments to the ability of the team to deliver the sprint goal/deliverables, act as a buffer between the team and any distracting influences, and lead the Agile process. For this project my team is composed by 4 backend developers, 3 frontend developers, and 1 QA resource. I am also involved directly on the backend and Android development part.

Apart from these two main projects, I am also involved in other projects, mainly as consultant or for brainstorming activities.

## Software Engineer (Research Assistant)

Università degli Studi di Milano – Milano – Italy [March 2005 .. August 2011]

I was involved in two European projects: *PrimeLife* (FP7) and *PRIME* (FP6).

The PRIME project aimed at developing a working prototype of a privacy-enhancing *Identity Management System*. To foster market adoption, novel solutions for managing identities have been demonstrated in challenging real-world scenarios (e.g., Internet Communication, Airline and Airport Passenger Processes, Location-Based Services and Collaborative e-Learning). This project has shown how privacy technologies can enable citizens to execute their legal rights to control personal information in on-line transactions.

The main goal of the PrimeLife project was to address the core privacy and trust issues pertaining to new privacy challenges: how to protect privacy in emerging Internet applications such as collaborative scenarios and virtual communities, and how to maintain

life-long privacy. Its long-term vision was to counter the trend to life-long personal data trails without compromising on functionality. It was built upon and expanded the PRIME project.

My main task in the PRIME project was to develop and design the access control and policy management modules of the project. This task was done in collaboration with *HP Labs* (Bristol – UK), *Institut EURÉCOM* (Sophia-Antipolis – France), *Joint Research Centre* (Ispra – Italy), and *World Wide Web Consortium*. During the life-time of PRIME, I collaborated to the design of the *XML* policy language used within the framework, and to develop some proof-of-concept prototypes.

My main tasks were to design and participate to the development phase of an extended version of the *XACML* (eXtensible Access Control Markup Language) access control engine, to support the advanced privacy oriented techniques defined in the project. This task was done in collaboration with *SAP* (Sophia-Antipolis – France), *IBM Research* (Zurich – Switzerland), *European Microsoft Innovation Center* (Aachen - Germany), and *World Wide Web Consortium*. During the life-time of PrimeLife, I collaborated to other related projects, such as the social network *Clique*, one of the first examples of privacy oriented social network.

During this period, I was also involved in several teaching activities mainly focused on post-graduate courses on database system and programming. I also started to work as tutor of the Database and Cryptography courses of the Università degli Studi di Milano (currently I am continuing this collaboration).

During this period, I also co-wrote several papers, including the following IEEE Transaction on Service Computing (TSC):

C. A. Ardagna, S. De Capitani di Vimercati, S. Paraboschi, E. Pedrini, P. Samarati, and M. Verdicchio, “*Expressive and Deployable Access Control in Open Web Service Applications*”, in IEEE Transactions on Service Computing (TSC), 2011

## Consultant

STMicroelectronics – Agrate Brianza (MI) – Italy [June 2002 .. December 2004]

I was involved in several R&D projects related to the design and development of software and hardware prototypes in the automotive and mobile fields. The development tasks were done using Assembler, C, and C++ languages. Among the other projects the main ones were:

- design and develop an hardware coprocessor to the aim of simplifying the data extraction from a bi-dimensional array of data. This project resulted in the publication of an international patent: *Method and device for extracting a subset of data from a set of data* (US Patent # 7,333,675)
- design and develop of a voice cryptographic system in the mobile area (the prototype has been developed using a smart-phone based on *Microsoft WindowsCE* OS); the prototype used the *Diffie-Hellman* schema in order to support secure key exchange and the *RC4* cryptographic algorithm for data confidentiality. During this project, I was involved in the study of a new cryptographic algorithm based on *Galois fields Linear Feedback Shift Register*;
- design and develop of an automotive telemetry system based on the GSM/GPRS mobile network. I was mainly involved in the development of the communication libraries between the *Digital Signal Processor* (DSP) and the GSM/GPRS module;
- design and develop of an automotive Neuro-Fuzzy coprocessor to be used in a new line of automotive *DSPs*. The design and testing phases were realized in *SystemC* (using the *Synopsys CoCentric System Studio*).

## Consultant/Freelance

Public Administration (Cities of Monte Cr. and Vaiano Cr.) [September 2001 ..]

I was involved in application development and network management for the areas that are not covered by the ordinary support service contracts in act. During the last years, this activity has been strongly reduced and mainly focused on the maintenance of the systems installed at the municipal libraries.

I'm Italian mother tongue and I can understand, speak, and write in English. I can understand extended speech and lectures and follow even complex lines of argument. I can also read with ease virtually all forms of the written language, including abstract, structurally or linguistically complex texts such as manuals, specialized articles and literary works. I can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible and I can present clear, detailed descriptions of complex subjects integrating subthemes, developing particular points and rounding off with an appropriate conclusion. I can write an essay or report, passing on information or giving reasons in support of or against a particular point of view.

I also attended a first level course in Spanish.

I participated in the following open source projects:

- *Pri-View* [<http://code.google.com/p/pri-views/>]:  
it is a tool that allows, given a relational table, to produce views (vertical fragments) over it, in such a way to protect the privacy of sensitive information while providing maximal visibility over the data. Pri-Views is based on a greedy algorithm designed by universities of Bergamo (Università degli Studi di Bergamo - Dipartimento di Ingegneria dell'Informazione e Metodi Matematici) and Milano (Università degli Studi di Milano - Dipartimento di Tecnologie dell'Informazione)
- *Over-Encrypt* [<http://sourceforge.net/apps/mediawiki/over-encrypt/>]:  
this open-source project provides a secure solution for data sharing capabilities in an outsourcing scenario, where the storage service provider is trusted neither for data confidentiality nor for enforcing access control functionalities. Over-Encrypt is a prototype of a safe and privacy-aware client-server web application, designed by the universities of Bergamo (Università degli Studi di Bergamo - Dipartimento di Ingegneria dell'Informazione e Metodi Matematici) and Milano (Università degli Studi di Milano - Dipartimento di Tecnologie dell'Informazione). The strong points of this solution lie in the scalability and efficiency of the data outsourcing mechanism, and in the decentralized management of access control policies and their evolution. Over-Encrypt project comes within the European project PrimeLife (7th Framework Programme).
- *MeemiDroid* [<http://code.google.com/p/meemidroid/>]:  
it is an open-source Android client for the Italian social network *Meemi*.

I can work in team, communicate with colleagues and superiors (identifying the most appropriate communication mode depending on situations), and be proactive in solving problems. I can explain clearly and accurately the results of my activities, both in front of a technical audience and not, always maintaining a good level of understanding.

Eros Pedrini