

CURRICULUM VITAE  
**GIANNI VALENTI**

**PERSONAL INFORMATION**

NAME VALENTI Gianni  
ADDRESS Via Buecchio, 19/A – 56028 San Miniato (PI) – Italy  
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E-MAIL gianni.valenti@gmail.com  
NATIONALITY Italian  
DATE OF BIRTH 1<sup>st</sup> September 1978  
SEX Male

**PROFESSIONAL EXPERIENCE**

DATES 7<sup>th</sup> September 2009 → Present  
COMPANY Alkeria Srl  
Via Giuntini, 25 – 56123 Navacchio (PI) – Italy  
SECTOR Electronic industry  
OCCUPATION Software and firmware developer  
Digital electronic designer  
MAIN ACTIVITIES AND RESPONSIBILITIES Develops high performance proprietary libraries in standard C++ and .NET Visual C++ to control camera devices, video streaming, image conversion and visualisation.  
During these years he gained a strong experience in writing optimised and multi-thread C++ code for both Linux and Windows. Particular attention has been paid to the acquisition of skills in writing optimised code for time-critical data manipulation.  
He also gained a significant experience in graphical user interfaces programming both in C# and C++ (Win32 libraries and Qt). Furthermore, he gained experience in writing speed-optimised C++ code using SSE instructions and NVIDIA CUDA.  
Designs FPGA logic for digital cameras used in industrial and medical applications. Handles CMOS and CCD sensor image acquisition, image data synchronisation, manipulation, and low-level data transmission over Firewire™ and USB3 bus.  
A particularly significant activity was the design and VHDL implementation of the entire Link Layer Control for an IEEE 1394 controller.  
Almost all of the activities mentioned above have been carried out in partial or complete autonomy, from the design to the technical implementation, documentation and international customer support.

DATES 11<sup>th</sup> February 2008 → 31<sup>st</sup> August 2009  
COMPANY Piaggio & C. Spa  
V.le R. Piaggio, 25 – 56025 Pontedera (PI) – Italy  
SECTOR Automotive  
OCCUPATION Electronic engineer (Powertrain and engine innovation)  
MAIN ACTIVITIES AND RESPONSIBILITIES Working with the engine innovation team, he was involved in defining the specifications, architecture and test standards of the battery management system (BMS) and the lithium-ion batteries that powered Piaggio Mp3 Hybrid scooter.  
Piaggio Mp3 Hybrid was the first world's hybrid scooter launched on the market.  
During this experience, he worked with an international team, maintaining relationships with suppliers in Europe and Asia. He kept track of the progress of development, addressed safety issues related to the management and disposal of lithium-ion batteries and carried out long-term reliability tests on battery cells.

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| DATES                                | 3 <sup>rd</sup> December 2007 → 8 <sup>th</sup> February 2008   |
| COMPANY                              | I.S.T.I. – CNR (National Research Council)<br>Via G. Moruzzi, 1 – 56124 Pisa (PI) – Italy   |
| SECTOR                               | Public Research   |
| OCCUPATION                           | Research fellow   |
| MAIN ACTIVITIES AND RESPONSIBILITIES | Specification definition and development of Java web-services for workflow management in grid-aware systems.<br><br>Grid-aware systems are environments where nodes offer distributed and redundant services. A workflow consists of a series of operations that at run-time can be performed by any of the available nodes that are able to satisfy the request at the moment. |
|                                      |   |
| DATES                                | 1 <sup>st</sup> October 2006 → 31 <sup>st</sup> October 2007  |
| COMPANY                              | Istituto Superiore di Formazione Srl<br>Via Toscoromagnola, 187 – 56021 Cascina (PI) – Italy  |
| SECTOR                               | Education / training  |
| OCCUPATION                           | Software consultant   |
| MAIN ACTIVITIES AND RESPONSIBILITIES | Development of a web-based content management application.<br>Server administration.  |
|                                      |   |
| DATES                                | 13 <sup>th</sup> March 2006 → 13 <sup>th</sup> October 2006   |
| COMPANY                              | Wind Telecomunicazioni Spa / TD Group Srl<br>Via Malagoli, 12 – 56100 Pisa (PI) – Italy   |
| SECTOR                               | Telecommunications  |
| OCCUPATION                           | Software developer (consultant)   |
| MAIN ACTIVITIES AND RESPONSIBILITIES | Development of the blog platform for the online community of <a href="http://libero.it">libero.it</a> (pHp, CSS, XML, HTML).  |
|                                      |   |
| DATES                                | 1 <sup>st</sup> December 2003 → 28 <sup>th</sup> February 2006  |
| COMPANY                              | Materia Sas<br>Via P. Capponi – 56031 Soiana (PI) – Italy   |
| SECTOR                               | Web   |
| OCCUPATION                           | Software developer (freelance)  |
| MAIN ACTIVITIES AND RESPONSIBILITIES | Development of e-learning platform and other web-applications.  |
|                                      |   |
| DATES                                | 1 <sup>st</sup> February 2002 → 30 <sup>th</sup> October 2003   |
| COMPANY                              | Y Group Srl<br>Via G. Pascoli – 56100 Pisa (PI) – Italy   |
| SECTOR                               | Web advertisement   |
| OCCUPATION                           | Owner and CTO   |
| MAIN ACTIVITIES AND RESPONSIBILITIES | CMS development and server administration.  |

## EDUCATION AND TRAINING

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|---------------|--|
| DATE          | 30 <sup>th</sup> September 2008  |
| QUALIFICATION | Italian engineering state exam passed  |
| DATES         | October 1997 → October 2007  |
| QUALIFICATION | M. Sc. in Electronic Engineering (final score 108/110)<br>Thesis title: “Distributed Intrusion Detection for Secure Cooperative Multi-Agent Systems” |
| INSTITUTE     | Facoltà di Ingegneria – Università di Pisa   |
| DATES         | September 1992 → July 1997   |
| QUALIFICATION | High school diploma (final score 60/60)  |
| INSTITUTE     | Liceo Scientifico F. Bonarroti – Pisa  |

## PUBLICATIONS

- [1] A. Fagiolini, G. Valenti, L. Pallottino, G. Dini, and A. Bicchi, “Decentralized intrusion detection for secure cooperative multi-agent systems,” in *Proc. IEEE Int. Conf. on Decision and Control, 2007*.
- [2] A. Fagiolini, G. Valenti, L. Pallottino, G. Dini, and A. Bicchi, “Local monitor implementation for decentralized intrusion detection in secure multi-agent systems,” *3rd IEEE Conference on Automation Science and Engineering, 2007*.
- [3] A. Fagiolini, M. Pellinacci, G. Valenti, G. Dini, and A. Bicchi, “Consensus-based distributed intrusion detection for multi-robot systems,” *IEEE International Conference on Robotics and Automation, 2008*.

## PROFESSIONAL SKILLS AND COMPETENCES

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|---------------------------------------|--|
| MOTHER TONGUE                         | Italian  |
| ENGLISH                               | Reading: C1 - Writing: C1 - Oral expression: C1.<br><small>(Self assessment based on Common European Framework of Reference for Languages)</small>   |
| FRENCH                                | Basic scholastic knowledge   |
| SOCIAL SKILLS AND COMPETENCES         | <p>Able to work and communicate effectively in multi-ethnic groups, respecting different cultures and paying particular attention to the differences and sensitivities of each member.</p> <p>Focused on cooperation and the exchange of ideas and information, he usually earns the respect of colleagues and is always willing to help suggesting alternative solutions or providing direct support.</p> |
| ORGANIZATIONAL SKILLS AND COMPETENCES | <p>Able to work autonomously and as a team, coordinating his work with others. Respects responsibilities and deadlines and pays particular attention to planning activities.</p>   |
| TECHNICAL SKILLS AND COMPETENCES      | <p>Always oriented towards learning new technologies and languages. Committed to writing clean, well organised, scalable and reusable code.</p> <p>Object oriented programming enthusiast. C++, Qt and .NET programming on Windows and Linux for multithread and time-critical applications. Real-time image acquisition and manipulation using SSE instructions and NVIDIA CUDA.</p>                      |

VHDL digital circuit design. Strong knowledge of Xilinx FPGA, MicroBlaze and picoBlaze processors.

Basic Python knowledge.

Svn and code versioning software used on a day basis.

Brief experience with Matlab and Simulink during university studies.

FMEA, international standards (IEC, ISO, UL).

pHp, SQL, HTML, XHTML, XML, XSL, CSS.

Good knowledge of Linux server administration (Apache web server, pHp, MySQL, ftp, mail).

Microsoft Office suite.

Operating systems: Mac OS X, Linux, Microsoft Windows.

#### CREATIVE SKILLS AND COMPETENCES

Has been playing saxophone (alto, tenor and soprano) since he was ten years old and he's currently learning flute and piano.

He currently play jazz, afro-beat and latin music in a few bands and gives private music lessons during spare time.

During the summer of 2016 attended a two-week summer jazz class in New York City and took spare saxophone lessons from some of the most active saxophone players of the New York jazz scene.

Occasionally he played and recorded songs with a few relevant artists in Italy, Netherlands and in the USA.

#### DRIVING LICENSE

Italian "B" driving license.