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DATE OF BIRTH	12 February 1980	
CITIZENSHIP	Italian	
EDUCATION	<b>Università degli studi di Brescia</b> , Brescia (BS), Italy P.Eng. Qualification Examination, Computer Science, 2009 <ul style="list-style-type: none"><li>• Professional Qualification Examination (Italian State Exam for P.Eng.)</li><li>• Qualified on 13 February 2009</li></ul> <b>DTI, Università degli studi di Milano</b> , Crema (CR), Italy M.S., Computer Science, 2008 <ul style="list-style-type: none"><li>• Thesis Topics: Algorithms, Parallel computing, Protein Folding (Bioinformatics)</li><li>• Final Mark: 106/110</li></ul> B.S., Computer Science, 2004 <ul style="list-style-type: none"><li>• Thesis Topics: Algorithms, HPC, Parallel computing, Protein Folding (Bioinformatics)</li><li>• Final Mark: 102/110</li><li>• Minor in Industrial Informatics (“<b>Curriculum Informatica Industriale</b>”)</li></ul>	
PROFESSIONAL EXPERIENCE	<b>Aesys S.p.A.</b> <i>Electrical/Electronic Manufacturing industry</i> <b>Software Engineer</b> February 2009 - Present <ul style="list-style-type: none"><li>• Summary: developing and integrating support for Linux-based on-field devices into the VMS (variable-message traffic signs) supervision/management software developed by my company.</li><li>• Technologies: C#, .Net framework, MS SQL Server, Windows, LAN/RS232, Subversion (Svn), Wireshark (including dissectors written in Lua)</li></ul> <b>Embedded Software Developer</b> April 2008 - Present <ul style="list-style-type: none"><li>• Summary: software development, build/release engineering, remote administration and helpdesk assistance for Linux-based on-field devices controlling variable-message traffic signs (VMS) produced by my company and operated by Italian motorways/freeways concessionaires in large-scale installations.</li><li>• Technologies: embedded Linux distros, Windows, VMware Workstation, GPS, WAN, GPRS/WIFI networks, VPN, SSH, SNMP, C/C++, GUIs based on FLTK libraries, Shell scripting, Perl (standalone scripts and Apache modules), XML/HTML, Javascript (including Ajax), ...</li></ul>	

## **DTI (Università degli Studi di Milano)**

*Educational Institution*

### **Cluster co-administrator**

2002 - 2008

- Summary: during my University studies, for some periods of time, I helped as co-administrator for an HPC cluster composed of Linux boxes used for Bioinformatics Research and located in the Physics Laboratory. That cluster was also used during my BS and MS theses for producing experimental data.
- Technologies: Linux distros, openMosix HPC cluster, MPICH, ...

## **IMA S.p.A.**

*Industrial Automation industry*

### **Software Developer**

2004 - October 2007

- Summary: software development for a mini-CAD written in VB6 and ANSI C. The project includes the support for the automatic placement of markers onto fabric panels, too.
- Technologies: Windows, CAD, VB6, ANSI C, AAMA/DXF file formats, Bluetooth, ...

## **DTI (Università degli Studi di Milano)**

*Educational Institution*

### **Linux Teacher**

2004 - 2005

- Summary: teacher for 5 courses on Linux (20h each) sponsored by the European Social Fund ("corsi FSE").

## **Atena S.r.l.**

*Information Technology and Services industry*

### **Teacher**

November 2005 - December 2005

- Summary: teacher for a course on Computer Basics (80h)

## **Linux Magazine (Italia)**

*Writing and Editing industry*

### **Occasional Editor**

2003 - 2004

- Summary: occasional editor
- Topics: Linux static/shared library development in C/C++, Software documentation production, writing documents with DocBook (XML-based document format), ...

## Webcarry S.r.l.

Computer Software industry

### Software Developer

2001 - 2004

- Summary: web-oriented development
- Technologies: Windows, ASP, HTML, CSS, IIS, ...

KNOWN  
LANGUAGES

English

TECHNICAL  
SKILLS

I'm an experienced Software Engineer with very broad interests ranging from software development to system administration. I always like learning new things, especially challenging ones.

#### Programming Languages:

- C, C++, C#, Java (including Swing and OpenGL - via JOGL), VB6, Fortran 77, XML/HTML/CSS/..., Javascript (including Ajax), ASP, Bash scripting, (a bit of) Perl and Lua, ...

#### Operating Systems, as admin and developer:

- Linux (also embedded), MacOSX, Windows

#### RDBMS:

- MySQL, MS SQL Server

#### Documentation Formats:

- $\LaTeX$ ,  $\text{LyX}$ , DocBook

#### Some of my favorite technical topics:

- ad-hoc tool development
- bioinformatics
- documentation production/management
- HPC (e.g. cluster technologies)
- object-oriented programming (OOP)
- parallel programming (e.g. Pthreads, MPI)
- software engineering (e.g. GoF design patterns)
- release/build engineering
- template metaprogramming (e.g. compile-time tricks)
- UNIX programming

PUBLICATIONS

F. Gangemi, G. Longhi, S. Abbate, F. Lebon, R. Cordone, G.P. Ghilardi and S.L. Fornili. *Molecular Dynamics Simulation of Aqueous Solutions of 26-Unit Segments of p(NIPAAm) and of p(NIPAAm) 'Doped' with Amino Acid Based Comonomers*. J. Phys. Chem. B 2008, 112, 11896–11906

PAST AFFILIATION

Member of:

- Filibusta/Luganega (Linux User Group of Crema CR, Italy)
- BgLUG (Linux User Group of Bergamo BG, Italy)