

Summary

Consultant specialized in freesoftware/opensource technologies.
Committed to the project and lover of team work. Self-Managed, goal and objective oriented.
Areas covered:

- Software design, implementation, testing
- Security (penetration testing, forensic activity)
- Systems integration (expecially with LDAP)
- Networking (everything related to the IP layer and above)
- Embedded systems design, implementation
- UNIX scripting (expecially bash, sed, awk)
- VoIP systems design, implementation

Experience

Vodafone Global (Vodafone Internet Services - Technology, Quality Assurance) April 2008-present
Mobile phone and internet service provider company.

Test Specialist

- Implemented a new load&performance testing procedure by developing a flexible and high performance toolkit.
- Designed, installed and operated 4 testing and data analysis servers.
- Tested and supported the troubleshooting of the capacity of the new [Vodafone 360.com](http://Vodafone.360.com) infrastructure.
- Coordinated the internal development, testing and reporting activities of the team.
- Coached 8 new colleagues and motivated proactive behaviours.

LabEL

2007-2008

Automotive weighing systems
Embedded system database designer, C++ programmer.

- Budgeted and projected the offer to the customer.
- Designed, implemented and tested a QT SQLite based database for a strong-arm architecture.
- Formalized and implemented the math models of the prototype.

Valore Formazione

2007-2008

Banks and insurances training company.
System integration.

- Budgeted and projected the offer to the customer.
- Implemented and operated a single sign-on network/VoIP infrastructure LDAP based.
- Coached 2 other systems administrators to replicate and operate the solution.

Bticino

2007-2008

Home automation
Embedded system programmer.

- Redesigned a C++ based protocol translator for an automated cooling/heating system.

Solidar Servizi

2002-2008

Tax advisors

- Budgeted and projected the offer to the customer.
- Designed and implemented a complete SW suite based on customer specific needs.

Training Team

2006-2008

Banks and insurances training company
System integration. /research

- Evaluated the feasibility of the project.
- Budgeted and projected the offer to the customer.
- Designed, implemented and operated a single sign-on network/VoIP infrastructure LDAP based.
- Coordinated the activity of a third party.

VideoMAG

2007

Pharmaceutical advertising company.
Technical lead. /research

- Evaluated the feasibility of the project.
- Budgeted and projected the offer to the customer.
- Designed and implemented a p2p based VPN network to broadcast advertising videos.
- Coordinated and coached 3 other technicians.

KOAN Software Embedded systems r&d company. PHP programmer. <ul style="list-style-type: none">Budgeted and projected the offer to the customer.Designed and implemented a PHP / SQLite framework based content sharing SW.Published the patch for the framework to support the SQLite database http://trac.seagullproject.org/ticket/1409	2007
INAS Cisl - Milano Tax advisors. Solutions designer. <ul style="list-style-type: none">Evaluated the feasibility of the project.Budgeted and projected the offer to the customer.Designed and implemented custom software and servers systems.Coached 2 internal system administrators to operate the delivered solutions.	2005-2007
OmniGATE IT consulting company. Network/security system designer. <ul style="list-style-type: none">Implemented a network firewall/filtering embedded appliance.Coached 1 system administrator to operate the solution.	2007
Smart Projects PCB prototyping company. PHP / DB programmer. <ul style="list-style-type: none">Evaluated the feasibility of the project.Budgeted and projected the offer to the customer.Implemented the modification on the opensource e-commerce solution of the customer.	2007
UNESCO - (United Nations Educational, Scientific and Cultural Organization) Agency of the United Nations. Embedded systems designer. <ul style="list-style-type: none">Budgeted and projected the offer to the customer.Implemented a MIPS-architecture based solution to operate a remote controlled gate system.	2007
Sorgenia Energy company. System administrator. <ul style="list-style-type: none">Upgraded the operating systems of a high availability cluster billing system (Oracle, Nagios, EMC^2)Operated the backup of the whole userspace due to lack of documentation and completed the installation of the new system within 7 working days.	2006
Wind Mobile phone and internet service provider company. System administrator. <ul style="list-style-type: none">Installed an enterprise backup solution. (Arkeia + Exabyte StorageLoader VXA-2)Collected the hardware & software documentation and implemented the solution within 3 days.	2006
UNESCO - (United Nations Educational, Scientific and Cultural Organization) Agency of the United Nations. PHP / DB programmer. <ul style="list-style-type: none">Evaluated the feasibility of a db querybuilder wizard to support the analysis of geospatial information.Budgeted and projected the offer to the customer.Implemented the solution within 5 working days. (previous trial of effort of the customer... 3 months)	2006
Biblioteca Sormani Public library <ul style="list-style-type: none">Budgeted and projected the offer to the customer.Designed and implemented a fulltext-retrieval search + imaging system to publish books over the internet.	2003-2006

	BPU Banca (IT & stock market services) Bank Programmer involved in the Solaris to Linux migration of all the software procedures. <ul style="list-style-type: none">• Implemented changes in the PL/SQL, BASH, TCL software.• Automated a reporting procedure using bash + sed/awk.	2005
	Univerita' Cattolica del Sacro Cuore University Software designer, system administrator. <ul style="list-style-type: none">• Integrated a fulltext-retrieval search XML engine	2005
	MG Engineering IT consulting company. Tester and system administrator. /research <ul style="list-style-type: none">• Coordinated and reviewed the work of a group of 5 testers.• Designed and implemented embedded network filtering appliances.	2001-2005
	ITI Malignani , Udine High school, technical institution. Trainer. <ul style="list-style-type: none">• Prepared a group of 30 people to face an IT professional certification (EUCIP, IT Administrator)	2005
	IANOMI (Infrastrutture Acque NOrd Milano) Water supply and waste disposal company. System administrator. <ul style="list-style-type: none">• Upgraded an undocumented highly integrated custom firewall/database/file system.• Faced a high risk situation with unreliable backup and "from scratch compiled" custom binaries.	2005
	H3G Italy Mobile phone and internet service provider company. Security analyst. <ul style="list-style-type: none">• Operated internal security policies.• Proposed an automated and structured security policies control solution.	2004
	Architetto e Blini design Design and advertising company. System administrator, web designer. <ul style="list-style-type: none">• Designed and implemented a mixed Linux/Mac network.• Implemented PHP/Flash Actionscript based websites.	2001-2004
	Politecnico di Milano University Lecturer (Linux TCP/IP socket programming) <ul style="list-style-type: none">• Coached the laboratory activity of software engineering students	2002
Leadership	Politecnico di Milano, Open *nix Labs (POuL) - http://www.poul.org University students association related to opensource/freesoftware based systems. Founder. LIFOS – http://www.lifos.org Public association related to opensource/freesoftware based systems. Founder. Students representative , IT & SW engineering faculty of Politecnico di Milano Lobbyist against the software patents directive proposal at the European Parliament. CAI Bergamo, Alpinismo Giovanile Alps trekking society. Member of the guides/trainers committee.	

Awards

internation Capture The Flag (iCTF) - WORLD CHAMPION, spring 2005 - <http://ictf.cs.ucsb.edu>
Worldwide university security contest organized by UCSB (University of California, Santa Barbara)
Member of the winning team.

Physics contest. High school territory competition. Winner of 1998 edition.

Math contest. High school territory competition. Winner of 1998 edition.

Education

CEFRIEL, Politecnico di Milano 2007
Project Management Professional (course in preparation to the PMP certification)

Politecnico di Milano 2001-2008
Undergraduate in IT & Software engineering (unattended)

Publications

GNU/TLA

Git alike software revision control tool

- Coded an "ANSI C" fix for email based usernames syntax handling.
http://savannah.gnu.org/bugs/?func=detailitem&item_id=15507

GOsa^2

LDAP, PHP based, administration tool

- Designed and implemented a plugin to manage an SSL Certification Authority + related LDAP schema

Skills

Motherlanguage in Italian, fluent in English and familiar with German.

Database Environment :: File-based DBMS :: Microsoft Access	Wizard	< 6 Months
Database Environment :: Network-based DBMS :: Firebird/InterBase	Competent	2 yr - 5 yr
Database Environment :: Network-based DBMS :: MySQL	Competent	5 yr - 10 yr
Database Environment :: Network-based DBMS :: Oracle	Competent	6 Mo - 2 yr
Operating System :: Handheld/Embedded Operating Systems :: uClinux	Want to Learn	< 6 Months
Operating System :: Modern (Vendor-Supported) Desktop Operating Systems :: Linux	Wrote It	> 10 years
Operating System :: Modern (Vendor-Supported) Desktop Operating Systems :: OS X	Wizard	2 yr - 5 yr
Operating System :: Modern (Vendor-Supported) Desktop Operating Systems :: Solaris	Competent	2 yr - 5 yr
Programming Language :: C	Competent	5 yr - 10 yr
Programming Language :: Java / Jython	Competent	6 Mo - 2 yr
Programming Language :: JavaScript	Want to Learn	< 6 Months
Programming Language :: PHP	Wrote The Book	5 yr - 10 yr
Programming Language :: PL/SQL	Competent	< 6 Months
Programming Language :: Unix Shell	Wrote The Book	> 10 years
Programming Language :: VHDL/Verilog	Want to Learn	< 6 Months
Programming Language :: Visual Basic	Want to Learn	< 6 Months
Programming Language :: XSL (XSLT/XPath/XSL-FO)	Want to Learn	< 6 Months
Topic :: Communications :: Chat :: Internet Relay Chat	Wizard	5 yr - 10 yr
Topic :: Communications :: Email :: Mail Transport Agents	Competent	5 yr - 10 yr
Topic :: Communications :: Fax	Competent	2 yr - 5 yr
Topic :: Communications :: Internet Phone	Want to Learn	< 6 Months
Topic :: Internet :: Log Analysis	Wizard	< 6 Months
Topic :: Internet :: Name Service (DNS)	Competent	2 yr - 5 yr
Topic :: Multimedia :: Graphics :: 3D Modeling	Want to Learn	6 Mo - 2 yr
Topic :: Multimedia :: Graphics :: Editors :: Vector-Based	Want to Learn	5 yr - 10 yr
Topic :: Security :: Cryptography	Want to Learn	< 6 Months
Topic :: Software Development :: Object Oriented	Want to Learn	6 Mo - 2 yr
Topic :: Software Development :: Quality Assurance	Competent	< 6 Months
Topic :: Software Development :: User Interfaces	Competent	5 yr - 10 yr
Topic :: Software Development :: Version Control :: CVS / SVN / GNU-TLA / Git	Competent	2 yr - 5 yr
Topic :: System :: Boot :: Init	Competent	5 yr - 10 yr
Topic :: System :: Hardware :: Hardware Drivers	Want to Learn	6 Mo - 2 yr
Topic :: System :: Installation/Setup	Wrote It	> 10 years
Topic :: System :: Networking :: Firewalls	Wizard	5 yr - 10 yr
Topic :: System :: Networking :: Monitoring	Wizard	2 yr - 5 yr
Topic :: System :: Operating System Kernels :: Linux	Competent	2 yr - 5 yr
Topic :: System :: Systems Administration :: Authentication/Directory :: LDAP	Wrote The Book	2 yr - 5 yr