

PERSONAL INFORMATION

Enrico Rossi



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Sex Male | Date of birth 26/01/1971 | Nationality Italian

WORK EXPERIENCE

10/2012–Present

Senior consultant on IT security for scientific systems

Joint Research Centre - JRC - European Commission, Ispra (Italy)
<http://ipsc.jrc.ec.europa.eu/>

The Institute for the Protection and Security of the Citizen is an applied research and development institute, aimed at analysing, modelling and developing new security applications in support to EU policies.

The job is to support the Institute in its needs, from advising on IT strategies to developing software or solutions.

- Network infrastructure and security advisor
- Linux L.A.M.P environment.
- Software Developer
 - Python
 - Php
 - C
- RHEL packages development.
- Web applications
 - Typo3
 - Drupal7.
- C.B.R.N.E. project software development.

Business or sector Public administration and defence; compulsory social security

2003–9/2012

Network Consultant and Administrator

SIMC/ARPA Hydro-Meteorological Service of the Emilia-Romagna region.
<http://www.arpa.emr.it/>

The ARPA/SIMC own 2 data-center, the bigger one in Bologna is dedicated to store and process large amount of meteorological data, the second one situated 100Km away in Parma is used to store and process hydrological data. The agency task is to produce weather forecast available for the Civil Protection and large part of the center-north of Italy.

My duties over these years were to assess the situations, keep the 2 data-centers updated, propose solutions to the problems or new requirements and implement them.

- Software developer
 - C
 - Php
 - Ruby on Rails
- GNU Linux Debian and Fedora administrator.
- Unix Sun/TRUE64 OS.

- Firewalls
 - iptables
 - fwbuilder
- IEEE 802.1Q VLAN
- Squid proxy server.
- VoIP - asterisk PBX, Patton router.
- Virtual servers
 - KVM
 - Xen
 - Virtualbox.
- Monitoring software
 - Nagios
 - home made control procedures
- NFS (3, 4) and GFS technology.
- LDAP based directory information system.
- DNS (bind9)
- Print Server (CUPS)
- Web server (Apache) and LAMP environment

1997–2009 **DevOps, System Administrator, network manager and software developer unix/linux system.**

University of Bologna – Dept. of Physics, ADGB (Atmospheric Dynamics Group Bologna)
www.unibo.it

The group own a small data-center used to store large amount of meteorological data, develops and run models, plot results. The duties were to design, build, upgrade and maintain this Linux/Unix data-center with HPC cluster in a typical research environment.

- HPC Linux Cluster Manager and designer.
 - Open MPI
 - NFS
 - DHCP/Bootp
 - Diskless Cluster
- Software Developer
 - C
 - Fortran
 - Ruby on Rails
 - Php
 - Shell scripts - Bash
- Web applications
 - Plone CMS
 - Moin Wiki
- System Administrator and designer of the local area network.
- Large S.A.N. and backups
- OpenMPI cluster manager and scientific software developer.
- OpenVPN.
- SGI Iris OS System Manager.
- Lan Management and linux/unix system administrator.

2003–2007 LAN Manager and system administrator

University of Bologna – Dept. of Physical and Inorganic Chemistry, DCFI group., Bologna (Italy)
www.fci.unibo.it

Design, build, upgrade and maintain a small Linux/Unix data-center with HPC cluster in a typical research environment.

- HPC Linux Cluster Manager and designer.
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 - NFS
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- Software Developer
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- Lan Management and linux/unix system administrator.

Business or sector Educational Institution ; Research industry

2006–2012 C software developer on Embedded and Real time Systems, Embedded Linux

Self Employed, Bologna (Italy)

C Developing Open source software for embedded device.

As freelance professional I have worked on many projects for different companies during the period. Usually I was involved in 2 to 4 projects at the same time with part-time contracts. These are the main competencies required among all the contracts.

Software:

- Python
- C developer on Embedded and Real time Systems, Embedded Linux.
 - AVR-libc
 - AVR-gcc for hardware based on Atmel microcontroller.
 - Debian for ARM based microcontroller.
- Kernel driver developer for custom HW in ARM environment.

Electronics Hardware:

- Debian porting to ARM embedded device.
- Firmware for a Samsung SLE4442 chipcard reader and writer.
- Software and protocol for devices working on a simplified X10 network on 433Mhz.
- Atmel AtMega microcontroller, avr-libc standard library.

2008–5/2012 Python developer, Network and System manager

Blue Tech s.r.l., Bologna (Italy)

- Python 2.7
- Python Bottle microframework
- Sqlite3
- Javascript
- Ajax
- Css

- Html.
- Linux system administrator
- Linux/windows network manager
- VoIP consultant
- Sensitive Data Storage
- OpenVPN
- Customers Consultant

Business or sector Computer Hardware industry

01/2012–10/2012 **System Administrator**

SIDEL spa., Bologna (Italy)

- Debian GNU Linux administrator
- Moodle E-Learning platform (CMS)

Business or sector Compulsory work security

3/2011–9/2011 **Linux network consultant.**

Anastasis s.c, Bologna (Italy)

Assess the situation, plan an internet provider migration, deploy new network infrastructure services.

- dns - bind9
- Linux firewall - iptables
- OpenVPN
- train on the job.

Business or sector Computer Software industry

6/2010–6/2011 **C, Python software developer.**

Hospimatic srl., Bologna (Italy)

Firmware for a Samsung SLE4442 chipcard reader and writer.
Software and protocol for devices working on a simplified X10 network on 433Mhz.

- Atmel AtMega microcontroller
- Avr-libc
- Project OneWay
- Siemens SLE4442

Business or sector Hospital & Health Care industry.

12/2010–3/2011 **Linux virtualization and networking consultant.**

Xelia srl., Imola (Italy)

Installation and virtualization (KVM) of linux debian servers and related networking infrastructure with redundancy and backups.

Business or sector Partnership; Information Technology and Services industry.

2009–2010 **Linux teaching and training.**

SIMC/ARPA Hydro-Meteorological Service of the Emilia-Romagna region., Parma (Italy)

Teaching basic Linux installation and management.
GNU/Debian installation and configuration.

- Firewall how-to based on iptables
- Network troubleshooting based on wireshark

Business or sector Government Agency ; Environmental Services industry

2000–2008 Network and system manager.

Lamda Informatica srl., Bologna (Italy)

- LAMP developer
- Sqlite
- Posgresql
- PHP
- Web developer Ruby on Rails (eCommerce)
- Linux system administrator
- Linux/windows network manager
- VoIP Asterisk
- Sensitive Data Storage
- OpenVPN

Business or sector Computer Hardware industry

1996–2005 Network designer and administrator, consultant.

ITCS Enrico Mattei, San Lazzaro di Savena, Bologna (Italy)

Linux Infrastructure servers

- SMTP
- Mail POP/IMAP
- Proxy
- Network security.
- Novell network support

Business or sector Education

2002–2004 Founding Member of Zefir s.r.l. (Spin Off with Univ. of Bologna)

Zefir srl.

Zefir Spin Off in collaboration with University of Bologna was created to fulfill the requirement of the Refir Satellite Project ground segment, mainly software, data storage and IT support.

2002–2002 Network on site installation.

Cable & Wireless., Bologna (Italy)

Installation and configuration cisco routers.

Business or sector Telecommunications industry

2001–2001 ISDN wide area network.

C.N.A. - National Confederation for the Craft Sector and Small and Medium Enterprise of Italy., Rome (Italy)

Network manager and support for a isdn based country wide area network.

- 1999–1999 **Electronics engineering technician.**
 L.A.B.E.N. spa., Milano (Italy)
 Electronic projects.
Business or sector Public Company; Information Technology and Services industry
- Jan 96–Dec 96 **Meteorological software for Cray T3E.**
 C.I.N.E.C.A.
 Fortran meteorological climate model code reviewer.
- 94–95 **Unix mainframe system manager.**
 University of Bologna, Physics Dept.
 System manager of an IBM RS6000 based small data center.
- 92–94 **Novell network and Ms-Dos administrator.**
 Lambda Office Italia srl.
 Novell network designer and manager.
 Customer Ms-Dos Hardware and software support service.
- Jan 92–Dec 92 **Software C++ developer.**
 Simulmondo
 C++ GUI developer.
- 1/1991–12/1991 **Private Computer Science teacher**
 Secondary school level CS teacher at home.

EDUCATION AND TRAINING

- 1985–1990 **Perito Tecnico Informatico.**
 I.T.I.S. "Odone Belluzzi"
 Computer Science

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](http://www.cerl.eu)

Organisational / managerial skills

As freelance professional I have developed projects in partnership with other companies, people and organizations, and, of course, customers. I have collaborated with different professionals sometimes as a team leader, sometimes as a team member.

Job-related skills

Knowledge of analog and digital Electronics.

- Computer skills**
- GNU/Debian Ubuntu Linux.
 - Red Hat Enterprise, CentOS.
 - C developer.
 - HPC, Storage Area Network, hardware and software RAID, LVM, GPFS, fiber channel raid storage.
 - OpenMPI.
 - Python, Bottle, Json, Ajax.
 - HTML, XML, CSS, Javascripts.
 - PHP (3 - 5).
 - Shell scripting.
 - PostgreSQL, MySQL, Sqlite.
 - Ruby on Rails.
 - Plone CMS.
 - Fortran.
 - Atmel ATmega C open source programming.
 - Atmel AVR32 C programming and linux porting.
 - Hardware bus i2c, twi, rs232 microcontroller link.
 - High Speed ADC sampling and data-management.
 - Iptables, firewall, network protocols.
 - Scalable network, switches and physical link.
 - Network services, dns, dhcp, ipv4, ipv6.
 - Virtual server (Xen, Vserver, KVM, qEmu).
 - NFS (3 e 4), Samba.
 - Printserver, cupsys, HpJetAdmin.
 - Asterisk PBX, VoIP Client Linux and Windows, Hardware, VoIP protocol and application.
 - Router VoIP Patton.
 - Meteorological GSM/GPRS station, firmware and software, remote sensing device, real time data acquisition.
 - ARM Linksys NSLU2, Open WRT Linux.
 - Hp/Compaq Tru64.
 - SGI Irix.
 - IBM Aix.
 - Cisco Ios, ISDN, Adsl, Routing.
- Other skills**
- Free flying license (paragliding) since 2002.
 - Amateur Radio license 1980.
 - Nautical license (sail/engine).
 - Nautical skipper experience from 1995 to 2001 in the Mediterranean sea.
- Driving licence** A, B

ADDITIONAL INFORMATION

- Publications**
- Marco Miani, Sergio Consoli, Daniele Galliano, **Enrico Rossi**, Alessandro Annunziato "Physical and numerical simulation of a scaled tsunami wave." JRC - technical report. EUR 26079. Luxembourg (Luxembourg): Publications Office of the European Union; JRC83345 - ISBN: 978-92-79-32512-0 (2013)

- Vincenzo Cuomo, Aldo Amodeo, Paolo Antonelli, Antonella Boselli, Alessio Bozzo, Carmela Cornacchia, Giuseppe D'Amico, Maurizio Di Bisceglie, Francesco Esposito, Paolo Di Girolamo, Giuseppe Grieco, Allen M. Larar, Luigi Leone, Fabio Madonna, Tiziano Maestri, Rocco Marchese, Guido Masiello, Giuseppe Meoli, Lucia Mona, Marco Pandolfi, Gelsomina Pappalardo, Giulia Pavese, Gianluca Pisani, Rosa Restieri, Rolando Rizzi, Filomena Romano, **Enrico Rossi**, Federica Rossi, Domenico Sabatino, Carmine Serio, William L. Smith Jr., Nicola Spinelli, Donato Summa, Giulio Todini, Domenico Villacci, Xuan Wang, and Daniel K. Zhou "The Italian phase of the EAQUATE measurement campaign" Proc. SPIE Vol. 5979, 59791E (Nov. 1, 2005)