

# Europass Curriculum Vitae



## Personal information

Surname(s) / First name(s) **Alessandro Gervaso**  
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Italy  
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Email(s) gervystar@gervystar.net  
Nationality(-ies) Italian  
Date of birth 12/02/1981  
Gender Male

## Desired employment/ Occupational field

**Sysadmin - IT Manager**

## Work Experience

|                                      |  |
|--------------------------------------|--|
| Date                                 | 01/10/2007 - today   |
| Occupation or position held          | Sysadmin   |
| Main activities and responsibilities | Re-design of the existing IT infrastructure.<br><br>Migration and update of several services from previously existing physical installations to xen based virtual machines.<br>Re-engineering of the existing compute cluster, switching from nfs to an innovative boot over iSCSI architecture.   |
| Name and address of employer         | Istituto di Genomica Applicata<br>Parco Scientifico e Tecnologico Luigi Danieli<br>Via J.Linussio, 51 33100 Udine - Italia   |
| Type of business and sector          | Scientific research/High performance computing   |
| Dates                                | 13/09/2006 - 31/07/2007  |
| Occupation or position held          | HPC/HA Specialist and Lead Developer   |
| Main activities and responsibilities | Architecture design for the HPC division's clusters, maintenance and update of already existing production systems.<br>Management and coordination of external teams of developers.<br>Supporting and helping the stagiaires in developing their projects.<br>Restructured the existing network using managed switches and consolidating some servers using the virtualisation, setup of a BTS and some more customer care services. |
| Name and address of employer         | Eurotech S.p.a<br>Via Fratelli Solari n. 3/a<br>33020 Amaro (UD) - Italy   |
| Type of business and sector          | High performance computing   |
| Dates                                | 15/02/2005 - 11/08/2006  |

|   |  |
|---|--|
| Occupation or position held<br>Main activities and responsibilities | Sysadmin<br>Maintenance of the existing network and server infrastructure. Installation and setup of centralized authentication and storage systems in mixed Linux/Windows networks, online and on-site customers assistance.<br>I was a developer and team leader during the FUSS project which migrated to Linux about 2500 workstations and 90 servers in the schools of the province of Bolzano, so far the biggest migration in Italy.<br>I built a live-cd containing an adsl connection wizard and part of the software which was installed in the schools. |
| Name and address of employer  | Truelite s.r.l.<br>Via Monferrato 6<br>50142 Firenze   |
| Type of business and sector   | IT Services  |
| Dates   | 06/2004 - 09/2004  |
| Occupation or position held<br>Main activities and responsibilities | Sysadmin<br>Maintenance of the network, of the servers, of the Linux, Windows and Solaris workstations and of the thin clients in the computer science lab.<br>I set up a Linux machine which was used as a firewall for the lab's network.  |
| Name and address of employer  | Università degli Studi di Udine  |
| Type of business and sector   | Accademic instruction  |
| Dates   | 01/2004 - 05/2004  |
| Occupation or position held<br>Main activities and responsibilities | Teacher<br>I was the teacher for the course "Using Linux and its applications" for about fifteen students.   |
| Name and address of employer  | ARSAP s.r.l.<br>Viale Cossetti n. 10<br>33170 Pordenone  |
| Type of business and sector   | Istruzione   |
| Dates   | 2003   |
| Occupation or position held<br>Main activities and responsibilities | Consultant<br>I've worked as a consultant for many private industries or schools, mainly setting up Linux servers or evaluating the accessibility and usability of existing and newly developed websites.  |
| Type of business and sector   | IT Consulting  |
| <b>Education and training</b>                                       |  |
| Dates   | 10/2000  |
| Title of qualification awarded                                      | Student in Tecnologie Web e Multimediali   |
| Principal subjects/Occupational skills covered                      | Knowledge of systems architectures and operating systems, programming fundamentals.<br>Being able to evaluate web sites' usability and accessibility.  |
| Name and type of organisation providing education and training      | Università degli studi di Udine  |
| Dates   | 09/1995 - 06/2000  |
| Title of qualification awarded                                      | Diploma di stato   |
| Name and type of organisation providing education and training      | Liceo Scientifico Statale "San Vito al Tagliamento"  |

**Personal skills and competences**

Mother tongue(s)

Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

**German**

**French**

**Social skills and competences**

**Organisational skills and competences**

**Technical skills and competences**

**Computer skills and competences**

**Italiano**

| Understanding |                  | Speaking |                  |                    |                  | Writing           |                  |
|---------------|------------------|----------|------------------|--------------------|------------------|-------------------|------------------|
| Listening     |                  | Reading  |                  | Spoken interaction |                  | Spoken production |                  |
| C1            | Proficient user  | C2       | Proficient user  | C1                 | Proficient user  | C1                | Proficient user  |
| A2            | Basic user       | B1       | Independent user | A2                 | Basic user       | B1                | Independent user |
| B1            | Independent user | A2       | Basic user       | B1                 | Independent user | A2                | Basic user       |

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Good attitude at working in a team; Very good attitude in quickly spotting problems' causes and in retrieving information, also thanks to a tight network of skilled people.

I've been given the opportunity to work in different teams, coordinating the people and trying to optimize the time usage.

Good knowledge of the creation of complex hardware systems, starting from the physical assembly to the delivery at the customer's site, verifying the presence of the needed ambiental requisites.

While configuring software systems I always keep an eye on the future maintainability of my work.

Very good knowledge of the GNU/Linux operating system, particularly of the Debian, Ubuntu and derived distributions.

Good experience using Red Hat and derived.

Very good experience in installing Linux based desktop workstations.

Some experience using Linux based embedded devices, particularly openwrt and dd-wrt on Linksys routers.

Extended knowledge in installing and securing Linux servers keeping an eye on data privacy and using secure protocols and cryptography:

- HTTP/S servers, particularly Apache
- SMTP servers with real and virtual users, based on different backends (SQL, LDAP)
- SQL databases (mysql, postgres, sqlite)
- POP3/IMAP over SSL servers
- Integrating Subversion with Apache (Revision Control System)
- Printing servers
- Centralised authentication servers, based on the integration of Samba and LDAP used as domain controllers on windows networks
- Bacula based backup systems

Experience using different monitoring and reporting tools such as:

- ganglia
- nagios
- cacti
- munin
- mrtg

Good knowledge of the Xen virtualisation technology on Linux also used in setups with several frontend servers and a shared storage, being able to migrate the guest instances without interrupting the service.

Some experience using Vmware's virtualisation technology.

Artistic skills and competences

Other skills and competences

Driving licence(s)

Some experience using other Linux based virtualisation technologies such as qemu and kvm.

I was the manager for the Virtuallinux project jointly developed by Eurotech Group and the "Università degli studi di Pisa" aiming at the creation of virtual clusters using a shared storage and with no master nodes. (<http://virtuallinux.sf.net/>)

Expertise in configuring beowulf clusters for parallel computation, sporting several features:

- diskless technology.
- centralized and redundant storage system.
- high speed interconnects using Infiniband technology used to vehicle both the calculus and the storage data.
- open-mpi with Infiniband support software stack, used in the parallel computations.
- nfs based shared storage.
- storage systems on parallel filesystems like GFS or OCFS2.
- monitoring of several nodes parameters like the network and cpu usage.

Knowledge in using the IPMI protocol to remotely manage some nodes.

Knowledge in configuring fiber-channel based storage systems (HCA, switch, SAN).

Knowledge in creating redundant storage systems using protocols like nfs, iSCSI and iSER (iSCSI over RDMA on Infiniband).

Very good experience in using LVM also in its clustered incarnation to virtualize the storage systems.

Good knowledge of the Infiniband stack and of how it can be exploited to replace FC and ethernet.

Experience from simple to quite complex network topologies, using managed peripherals, vlans, trunking and link-aggregation.

Good iptables knowledge.

Good knowledge of wireless networks, in particular caring about the security and paying attention to the needed backing infrastructure (WPA, radius server).

Some knowledge at different levels of the following programming languages:

- C#
- python
- java
- bash
- php

Some experience using web development frameworks like Django and Ruby on Rails.

I have a very good attitude in spotting the causes of lots of problems both technical or caused by a wrong user interaction.

I am passionate about the technology and its evolution.

I have a very good attitude in learning how to use new technologies and working methods.

I own a first level LPI certification.

I've been playing the electric guitar since I was sixteen.

I've played basketball for about eleven years.

A and B

## References

- [1] M. Aldinucci, M. Torquati, M. Vanneschi, M. Cacitti, A. Gervaso, P. Zuccato.  
*VirtuaLinux design principles*.  
Technical Report TR-07-13, Computer Science Dept., University of Pisa, June 2007.
- [2] M. Aldinucci, M. Danelutto, M. Torquati, F. Polzella, G. Spinatelli, M. Vanneschi, A. Gervaso, M. Cacitti, and P. Zuccato.  
*VirtuaLinux: virtualized high-density clusters with no single point of failure*.  
PARCO 2007, Jülich, Germany, September 2007