

# ALAN MOSCA

## *Curriculum Vitae*

### **General Information**

Address: \*\*\*\*\*

Phone: \*\*\*\*\*

Email: nitbix@nitbix.com

British and Italian citizen

### **Profile**

On top of an excellent student career, and some interesting experience, I am one of those individuals always seeking for something new to learn. Excitement is in finding new challenges and solving new problems every day. Amongst his hobbies are Piano, Guitar, Golf and Motorbikes.

I am willing to travel at any frequency or relocate anywhere, and enjoy driving.

### **Education**

Studied for four years at the very high profiled Politecnico di Torino (Vercelli campus), Ingegneria informatica (Computer Engineering BEng). A list of exams with marks is also available upon request.

Diploma from I.T.I.S. high school in Vercelli with maximum marks 100/100 as computer scientist (college level).

### **Current Employer**

Employer: Cluster Resources Ltd.

Position: Systems Engineer

Started: April 2007

Job Description / Duties:

- Development / engineering of the main architecture, technical backend and the build process of a self-installing and self-configuring Linux Cluster Distribution named Escalante, in partnership with Novell.
- Contribution to other streamline products like Torque and Moab
- Support for customer deployments
- Improvement of security and efficiency on internal networks

### **Previous Experience**

Employer: Aluminati Network Group Ltd (Newmarket)

Position: Systems Administrator

Start: 15/05/2006

Job Description / Duties :

- Administering and creating new server systems
- Design of an entirely new platform in a new Datacenter
- Migration from old system
- Maintenance of hosting and e-mail servers

Employer: Bubble Technologies Snc (Italy)

Position: Managing Director

Start: 08/2004 End:04/2006

Job Description

Right from start-up to closure in April 2006, he has been responsible for almost any aspect in this IT consultancy and services business, except for billing, payments and funding. Closure was due to withdrawal of public funding. As well as the normal activities of administration and marketing, entirely alone, he has achieved the complete realization of the hosting platform, the internal network and all websites (including the e-commerce system in cartucciavuota.it)

Duties:

- Marketing
- Network administration
- Purchase of all equipment
- Systems administration
- Buyer accounts
- Public relations to customers and suppliers
- Customer support
- Software development (team leader)

Employer: Scuola 2F Srl (Italy)

Position: Teacher

Start: 02/2002 End: 07/2002

Job Description: Teacher in evening classes for a private school which organized basic IT courses.

Duties:

- Teaching
- Accounting for missing payments
- Technical support to students

Employer: I.t.i.s. G.C. Faccio (Italy)

Position: Project Manager / Consultant

Start: 09/2002 End: 03/2004

Job Description

Project-contract with this high school of Vercelli. He worked on various projects like administering the school's network and lecturing network security in afternoon lessons and supported the IT structures of this and other schools in Vercelli.

Duties:

- Teaching
- Network administration
- Reporting to head teacher
- Deployment of structures
- Purchasing of small equipment

## **Knowledge and Skills**

<b><i>Skill</i></b>	<b><i>Level</i></b> <i>(Basic, Average, Good, Excellent)</i>	<b><i>Experience</i></b>
Use of Linux Systems	Excellent	8 years
Use of Macintosh Systems	Excellent	5 years
Use of Windows Systems	Excellent	11 years
Use of BSD and UNIX Systems	Good	5 years
Office Automation	Excellent	11 years
Project Management	Excellent	3 years
Customer helpdesk	Excellent	3 years
Server Maintainance	Excellent	9 years

Good skill in installing RedHat, Debian, Gentoo (stage 1 to stage 3) and Solaris systems, while testing platforms for the hosting service on testing servers, and improved the specificical knowledge of Gentoo and Debian.

Managed 2 developers in Bubble Technologies, both working on the php/mysql e-commerce system, and on a VB accountancy/invoicing software platform.

Hardware experience spans a variety of systems and architectures (big and small-endian), mostly related to customer sites.

## **Software Development**

Strong disposition towards object-oriented programming. Also inclined to low level network programming (directly managed client/server layers), to high level applications development (on existing platforms, eg:PHP+MySQL) and graphic 2D/3D applications. Good ability in commenting and optimizing code towards memory usage or speed. I can, on request, produce some small technical demos, if the time effort required is 7reasonably proportioned.

<b>Language</b>	<b>Level</b> <i>(Basic, Average, Good, Excellent)</i>	<b>Experience</b>	<b>Last Used</b>
C	Excellent	6 years	2006
C++	Excellent	6 years	2006
Php	Excellent	5 years	2006
Asp	Average	6 months	2003
Java	Good	1 year	2006
Html	Excellent	8 years	2007
JavaScript	Basic	1 year	2005
Visual Basic	Good	2 years	2006
Python	Basic	6 months	2004
Bash Scripting	Excellent	4 years	2007
Perl	Excellent	2 years	2007
Regular Expressions	Good	2 years	2007
Sed	Good	2 years	2007
Awk	Average	2 years	2007

<b>Platform</b>	<b>Level</b> <i>(Basic, Average, Good, Excellent)</i>	<b>Experience</b>	<b>Last Used</b>
Php/MySql	Excellent	4 years	2006
C/MySql	Good	1 year	2006
DirectX	Average	1 year	2004
OpenGL	Good	4 years amateur	2005
Win32 Platform Sdk	Average	3 years	2005
MFC	Basic	1 year	2003
Cgi-C	Basic	6 months	2005
VB/MySql	Basic	6 months	2005
VB/ODBC	Basic	6 months	2004
MS Access	Excellent	4 years	2006
Network Sockets (Winsock and Unix, in C, Perl and Java)	Good	1 year	2005
Perl/CGI	Good	1 year	2007
Native Perl	Excellent	2 years	2007
MPI C	Average	6 months	2007

## **Clustering**

Clustering experience spans from systems design and deployment(also scripted in the automated installer) to systems monitoring and systems debugging / diagnosing. Common knowledge of resource managers such as torque, LSF, PBS PRO, Slurm; Workload managers such as Moab and Maui; and monitoring tools such as Nagios, Cacti, Ganglia and SNMP.

## **Linux System Administration / Support**

Thanks to past experiences I have acquired a good ability in the administration of server systems, in providing technical assistance and customer support. The servers I set up and administered were Gentoo, Debian, SuSE and RedHat systems, configured to form high performance computing clusters and grids, or to provide shared/dedicated hosting services using Apache 1.3 and 2.0, Php 5, MySql 5, postfix / courier using virtual mysql tables, with high availability clustering and load balancing.

Subsequently planning migrations of accounts and writing the necessary tools to achieve them in a way that was transparent to users with no downtime, has increased my insight of HA and HPC applications.

I have gained substantial experience in customer support in all my recent experiences, either because I was having to help sysadmins configure their clusters, supporting customers with server-related issues or consulting customers on their technological needs.

Among the services provided by Bubble Technologies was a Linux migration scheme for SMEs, which allowed to drop licensing and maintainance cost. Other services to SMEs were networking support, setups and hardware assistance.

<b>Technology</b>	<b>Level</b> <i>(Basic, Average, Good, Excellent)</i>	<b>Experience</b>	<b>Last Used</b>
Apache	Excellent	4 years	2007
Samba	Good	2 years	2006

<b>Technology</b>	<b>Level</b> <i>(Basic, Average, Good, Excellent)</i>	<b>Experience</b>	<b>Last Used</b>
MySQL	Excellent	4 years	2007
MySQL cluster	Good	6 Months	2007
NFS	Excellent	2 years	2007
Tomcat	Average	2 years	2006
OrbD	Basic	1 year	2005
Dhcpd	Excellent	4 years	2007
DNS (Bind and common registrar issues)	Excellent	4 years	2007
Ftp (any)	Excellent	3 years	2007
Sshd	Excellent	5 years	2007
Squid / SquidGuard / Privoxy	Good	3 years	2006
Firewall / IPTables	Excellent	5 years	2007
SmtP (Postfix, Sendmail)	Excellent	4 years	2007
Imap/Pop3 (Courier, Dovecot, Uw-Imap)	Excellent	3 years	2007
Vhcs2	Good	2 years	2006
Cvs/Svn	Good	3 years	2007
Torque	Good	1 year	2007
Moab	Good	1 year	2007
Nagios	Good	2 years	2007
Cacti	Good	1 year	2007
Vnc	Good	2 years	2006
Ip Routing (BGP)	Good	3 years	2006
GrSecurity	Good	1 year	2007

### **Windows System Administration / Support**

The same services offered by Bubble Technologies in Linux environments were also offered in Windows or mixed environments. Administration of Active Directory servers, Terminal services or ISA servers were not uncommon. Platforms used by customers were principally XP pro on desktops and Windows Server 2000 / 2003 on servers / gateways, mainly SBS edition. Obviously the assistance package included also hardware, networking, supporting clients, troubleshooting, remote administration and end user training.

<b>Service</b>	<b>Level</b> <i>(Basic, Average, Good, Excellent)</i>	<b>Experience</b>	<b>Last used</b>
Active Directory	Excellent	2 years	2006
Sql Server	Good	1 year	2005
ISA	Good	1 year	2006
DNS	Excellent	2 years	2006
Terminal Services	Good	2 years	2006
Windows 2000 Clustering	Average	6 months	2005
IIS	Good	2 years	2006

### **Foreign Languages**

I natively speak Italian and English, have small knowledge of Spanish, and can understand very basic french.

### **Projects and Participations**

- **Sip-Communicator and Policom.** Sip-Communicator is a SIP client, written in Java by some Nist students (Belgium), distributed under GPL license and developed using the Eclipse platform. Policom is an evolution of this client, directly derived from it, with many new features. It has been presented as project work for the exam "Progetto Speciale Informatica". More information about Sip-Communicator is available at [www.sip-communicator.org](http://www.sip-communicator.org). A copy of the modified version is available upon request.

- Currently training to become a Gentoo Linux developer, by maintaining the courier package. Will maintain polygen and contribute to several other network and security packages once training is complete.

- Working on a patch to permit the use of user-specified maildir separators on the dovecot mailserver.

- **Italian Game Developers Association "gameprog-ita".** Alan has been a member of the association since 2003, and has participated actively in the development of the community, by promoting the association, participating to conferences and by publishing some tutorials about multi-threaded C programming in

windows.