

Emanuele Petrucci

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- Professional Summary** 18+ years experience applying technology solutions to business problems. Desire to use talents and skills in a challenging position that allows for personal and corporate growth.
- Quick learner, eye to details, technically solid
 - Capacity to take relevant decisions rapidly
 - Determination in every challenge, highly motivated, self starter, natural leader
 - Versatility adapting to the unexpected
 - History of successfully pairing user needs with ad-hock technical solutions through analysis, design, implementation and training/support
- Mar 2011 – Present** **System Automation Engineer** *Automat Snc/Freelance – Terni, IT*
Gain knowledge of industrial automation systems, ie. Answer Drivers (Ansaldo) Solargate inverters, Siemens & Wago PLC, and others. Works also as Fortran/C programmer on OpenVMS for the migration and extension from Digital VAX to DEC Alpha and HP Integrity of the chemical laboratory program of a world-leader steel factory. In the meanwhile still works as freelance.
- Apr 2009 – Feb 2011** **Computer Professor & Consultant** *Freelance – Terni, IT*
Teach as professor in several computer courses for professional private schools and for the Region Industrial Associations (API/CONFAPI/APIFORM, www.apiterni.it). In the meantime works also as computer consultant for companies and privates, having also the opportunity to deepen the web development knowledge, coding directly in HTML, CSS and Javascript.
- Oct 2008 – Feb 2009** **Senior Linux & Windows System Admin** *Movidius Ltd – Dublin, IE*
Movidius is a fables semiconductor company whose technology provides unique video editing and post production capabilities for the creation of User Generated Content for mobile social networking (see www.movidius.com). Responsibilities include the management and administration of Windows clients and Linux servers (RHEL, CentOS, Ubuntu). Contracted to implement from scratch:
- LDAP server in mirror mode & synch replication as unique common authentication system for company's users and services (Apache, Bugzilla, MySQL, SVN)
 - BACULA backup server for both Windows clients and Linux servers
 - ACP UPS client/daemon system, new Bugzilla r.3.2, VNC for server connections from Windows
- May – Sep 2008** **Senior Linux IT Engineer** *Silicon & Software Systems(S3) – Dublin, IE*
S3 is a 20+ years company which provide worldwide professional systems, embedded software and leading-edge silicon design for consumer, wireless and related applications (see www.s3group.com). The references paper claim "...his performance which as noted below was excellent.". Following were the responsibilities:
- Hardware specification and configuration
 - Installation and support of Enterprise network comprising Linux servers and desktops
 - Operating System configuration, deployment, maintenance and support
 - Backup and Archiving system management, using EMC Legato NetWorker
 - Provide Tier 2/3 Help Desk support to engineering and administration staff
 - Unix scripting and programming
 - Supporting TCP/IP Networks
- 2007** **Senior Unix System Admin (IBM AIX & Linux)** *Telecom Italia SpA – Rome, IT*
Telecom is Italy's largest provider of telecom products and services (see www.telecom.it).
- Responsible for the management and administration of all of TIM's IBM hardware System p5 595 and eServer pSeries 690 platforms in LPAR environments.
 - Install & administrate RHEL (Red Hat Enterprise Linux) and SLES (Suse Linux Enterprise Server) on HP and SUN servers in all Telecom sites, including RAID, LVM and multipath configuration.
 - Support other SysAdmins in their responsibilities on platforms, including Sun Solaris 8–10.
- 2006** **Linux Specialist & Platform Architect** *Anritsu Group – Rome, IT*
Contracted during the transition of NetTest's systems to the new Japanese owners Anritsu Group (see www.anritsu.com).
After performing a deep analysis of their RHEL Platforms, on which the company core business

products lay, conceived and realized a bespoke Linux distribution creating a completely new Platform that removed the then memory and storage limitations & dramatically improved system performances. The Platforms were based on RHEL4 and realized for 32/64bit DELL & HP servers, include an Oracle DB/AS customized installation + company's Data Warehouses, all delivered in a single DVD featured with a whole automatic installation system process. Thus the user interaction is reduced to the solely initial selection of the platform desired, guaranteeing following benefits:

- *simplicity*: no other user interaction required (a key step!)
- *security*: all installations are completed as programmed, without failures and in a consistent status
- *rapidity*: also the needed reboot and restart phases are completely programmed & auto-managed
- *reliability*: there has never been opened a trouble ticket for these platforms, highlighting the capacity to thoroughly test and trouble shoot the entire process.

New installation guide is a 1/3 the previous size, despite the detailed description of the new systems specs and the illustrated step-by-step post-install ncurses script, conceived to perform the main system customizations in few clicks without typing any shell command.

- mid 2005 – end 2005** **Senior Intranet System Admin on Unix environments** *TIM SpA – Rome, IT*
TIM is Italy's largest supplier of cellular telecommunications products and services and was a wholly owned subsidiary of Telecom Italia until it was folded back into its parent company. Contracted to manage TIM's intranet during a relatively short transition phase.
- 2005 – mid 2005** **Senior Portal System Admin on Unix environment** *Telecom Italia SpA – Rome, IT*
Telecom is Italy's largest provider of telecommunications products and services. Contracted to manage and administrate Telecom's web portals, Rosso Alice Italia (see www.rossoalice.it) and Rosso Alice Francia (see www.aliceadsl.fr). These web portals provide news, customer and product information, games, e-commerce, and streaming audio/video (e.g. movies, soccer, and music).
- Based on a very high-end multiprocessor hardware platform (Sun Cluster Platform 15k's) with several million page hits per day and hundreds of thousands of unique users.
 - Developed a complete set of scripts which automated the process of portal administration thereby saving significant employee time and company resources.
- 2001 – 2004** **Team Leader, Spacecraft Engineer & SysAdmin on Unix/Win environments** *ESA (European Space Agency) – Rome, IT*
Alcatel Space was the main contractor for the European Space Agency "ESA-Envisat-1" project, an 8-ton polar satellite equipped with 10 instruments for the study & analysis of the Earth's environment (see www.envisat.esa.int). This highly acclaimed satellite still continues to provide environmental data to agencies, universities, and research centers throughout the world.
- Prior Envisat launch, happened March 1st, 2002, worked as Spacecraft AIT Engineer and Administrator involved in all AIT phases (assembly, integration, and test) of the PDS (payload data stations) in Italy and Sweden.
 - Post launch worked as Team Leader and as Main System/Network/Hardware Administrator, leading 7 other System Administrators, and responsible for all Envisat's four payload data centers (i.e. 2 Italy, 1 Sweden, 1 Spain).
 - Responsible of all satellite storage rooms, containing the spare parts of workstations, clusters, antennas and of every project electronic devices components.
- end 2000** **Computer Science Professor** *IPSIA – Terni IT*
Taught computer science classes to students at IPSIA high school (i.e. Istituto Professionale Statale per l'Industria e l'Artigianato), a state-run school specializing in industry and trade. Taught in two school classes (more than 30 people).
- 1998 – 2000** **Manager of Computer Store** *Euronics – Terni, IT*
Euronics is a large retail electronics chain (see www.euronics.it). Managed all aspects of the computers section for the Terni store (e.g. retail sales, inventory, custom orders, software installation and customer support). Revenue in the computers section more than doubled in the first 18 months.

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1997 **Graphic Design Technician** *Trend S.a.s. – Terni, IT*
(For further info, please see <http://resume.kysmor.com>)

1996 **Leader and Manager of Telemarketing Center** *Top Level – Arezzo, IT*
(For further info, please see <http://resume.kysmor.com>)

1993 – 1996 **Computer Consultant** *Freelance – Terni, IT*
(For further info, please see <http://resume.kysmor.com>)

Education & Certifications

- **BS Tech. in Computing**, Dublin Institute of Technology (DIT), Dublin, Ireland (2010)
- **IBM RS6000 and PSSP Administration** by IBM (2003)
- **Hardware Maintenance** – Region of Umbria (1992-93)
- **Animation Cinematography using New Technologies** – Region of Umbria (1991-92)
- **Italian Navy Academy & Military Service** (1989-91)
- **High School Diploma** (emphasis: Computer Science) – ITIS, Istituto Tecnico Industriale Statale – Foligno, IT (1989)

Technical Skills

- **Operating Systems:** UNIX: IBM AIX 4.x–5.x, Sun Solaris 8–10, SGI Irix 5.x, Linux (Red Hat, Suse, Debian, Ubuntu and others); MS Windows (all versions); Apple MacOS 8.x–X; IBM OS/2 2.x–4.x; OpenVMS 7.3/8.3
- **Shell Scripting:** Bash/Ksh, TCL/TK
- **Programming Languages:** C, Pascal, Fortran, some Assembly (z80, x86); HTML, CSS, Javascript
- **System & Server Admin:** LDAP, Apache, SSH, FTP, Proxy, NFS, Samba, etc.
- **Network Administration:** knowledge of Cisco routers/switches, FORE ATM switches; Iptables, Ethereal, Netcat, Snort, etc.
- **Backup:** EMC Legato NetWorker, Bacula
- **DB:** Oracle 8–10, MySQL 4–5
- **Virtualization:** IBM LPAR, VMware, Xen, Sun VirtualBox, K/Qemu
- **Other:** BEA Weblogic Server 6.1–8.1, Broadvision 7.1, Vignette 7.2, several open source CMS. MS Office Suite, Open/LibreOffice. CVS, RCS, SVN, Mercurial. ARS Remedy, Soffront Track, Numara FootPrints. Photoshop, CorelDraw, Gimp, Inkscape, Blender.

Languages Italian (mother tongue), English (proficient both written and spoken)

Personal Projects & Interests

Manage the analysis, design, development and implementation of the following personal projects:

- [System Resource Monitor](#) is a program to monitor remotely computer system resources, initially developed in Bash+TCL scripting language, is a SourceForge GPL project in C language currently under development (see <http://sourceforge.net/projects/srmon - demo>)
- an embedded system for the duplication of proprietary PCMCIA memory cards used in industrial robotics facilities
- a software for retail point-of-sale system (POS)
- a home automation and video-surveillance system

Interests include robotics, electronics, photography, astronomy, music, ham radio operator, playing around with Arduino μ controller and various sports (baseball, basketball, volley, table tennis, fishing).

Work Portfolio For further details on my work experiences, please take a look at the work portfolio:
http://resume.kysmor.com/Emanuele_Petrucci-portfolio.pdf

References Available on request.