

Emanuele Petrucci

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30+ years experience applying technology solutions to business problems. Desire to use talents and skills in a challenging position that allow for personal and corporate growth.

- Skill set**
- Quick learner, eye to details, technically solid
 - Determination in every challenge, highly motivated, self starter, pro-active
 - Capable of quickly making important decisions, versatile in adapting to the unexpected
 - History of successfully pairing user needs with ad-hock technical solutions through analysis, design, implementation and training/support

Lug 2021 - Present **Ground Segment Engineer at GNSS Galileo project** *Fucino Space Centre - Avezzano, Italy*

Employed to perform AIV activities (Assembly, Integration and Verification) and L2 support (highly specialized support) in the Italian Ground Control Segment of the Galileo project ([link](#), [link](#), [link](#)), the European Global Navigation Satellite System, at the [Fucino Space Centre](#). The project includes a constellation of 26 [Medium-Earth Orbit satellites](#) running over 3 different orbits, several worldwide Ground and Mission Earth Segments, sensor stations, up-link stations, and other ground elements. A new batch of 12 satellites are on the verge to be launched, and the first Galileo Second Generation satellites are in advanced phase of development.

Apr 2009 - Present **GNU/Linux & IT Instructor** *Freelance - Italy*

Exceeded 2,500 hours as computer trainer, professor and Cisco Academy Instructor, teaching particularly: GNU/Linux System & Server Administration, preparation to gather [Red Hat](#) and [LPI](#) Certifications, Cyber Security, CCNA, Front-End & Back-End development (HTML, CSS, JS, Bootstrap, PHP), Scripting & Programming languages (C/C++, Bash/KSH), Databases (MySQL/MariaDB, Oracle), DevOps (practices, Docker, Kubernetes) and Google Cloud courses. Companies and clients taught include:

- [Italian Minister of Justice \(Corte Suprema di Cassazione\)](#)
- [Italian Justice Registry Dept. \(Casellario di Giustizia\)](#)
- [Italian Minister of the Interior - State Police, Central Dept., Naples](#)
- [RAI, Italian Public Radio/Television](#)
- [Telecom Italia Spa \(Milan, Naples, Mestre\)](#)
- [IGT, International Game Technology \(previously Lottomatica Group Spa\)](#)
- [Reale Group \(Reale Mutua Assicurazioni\)](#)
- [Engineering Spa](#)
- [Almaviva Spa](#)
- [Energent Spa](#)
- [Serco Group](#)
- [United Arab Emirates' Government \(UAE\)](#)
- [Italian Army](#)
- [LUISS Guido Carli University](#)

Oct 2016 - Oct 2017 **Oracle DBA** *ACEA Spa - Rome, IT*

Administers all Oracle DB of [ACEA Spa](#) (300+ DBs, 500+ TB) on IBM AIX/Linux/Windows platforms, guaranteeing their 24h/7d operativity. Conceive and develop a complete management program to ease the remote daily Oracle DB operations on tablespaces, schemes, exports/imports, etc.

Oct 2014 - May 2016 **Sn. Linux System & Application Admin** *Intesa Sanpaolo Bank - Milan, IT*

Shares his computer knowledge working in a team of system admins and correlating with storage, network and DBA team members. Manage also Oracle Solaris & IBM AIX systems, but his tasks are focused particularly on Linux, both physical and virtual machines, where guarantees the consistency and the proper functionality, managing/creating custom Linux boot images, multipath, RAIDs, LVM, ocfs, Veritas disks, UCS Blades, Veritas Clusters, and Red Hat Clusters.

Manages Disaster Recovery platform as well.

Since his arrival started conceiving and writing scripts and tools to automatize working procedures, repetitive and supervising tasks and perfecting/enhancing existing scripts.

Mar 2011 - **System & Industrial Automation Engineer** *Automat Snc - Terni, IT*

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- May 2014** 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 a freelance.
- Apr 2009 - Computer Instructor & Consultant** *Freelance - Terni, IT*
Feb 2011 Teach as instructor in several computer courses for professional private schools, as [MG Technics](#), and for the Region Industrial Associations ([API/CONFAPI/APIFORM](#)). In the meantime works also as a computer consultant for companies and privates.x
- Oct 2008 - Senior Linux & Windows System Admin** *Movidius Ltd - Dublin, IE*
Feb 2009 [Movidius Ltd](#) is a fabless semiconductor company whose technology provides unique real-time video editing and post production capabilities in HD and 3D, oriented to the creation of User Generated Content for mobile social networking. 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 & sync 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 Italy's largest provider of telecom products and services (see www.telecomitalia.com).
- 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](#).
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!)

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- **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 troubleshoot the entire process.

New installation guide is 1/3 the previous size, and it is merely a 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 environments *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 (currently www.cubovision.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 that 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 <http://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. 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.

1993 - 1997 Graphic Design Technician *Trend S.a.s. - Terni, IT*

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Leader and Manager of Telemarketing Center Computer Consultant

Top Level – Arezzo, IT
Freelance – Terni, IT

(For details, please see <http://resume.kysmor.com>)

Education & Certifications

- **Google Cloud Authorized Trainer (2021/05)**
- **Google Cloud Certified - Professional Architect (2021/02)**
- **Google Cloud Certified - Associate Cloud Engineer (2020/11)**
- **Oracle Cloud Infrastructure Certified Architect Associate (2021)**
- **Cisco Academy Instructor**, teaching following courses:
 - IT Essentials – PC H/W & S/W
 - NDG Linux Essentials, Administration, Engineer (LPI, 101, 102, 201, 202)
 - Cyber Security Foundation
 - CCNA 1 – Network Fundamentals
- **Linux Certification “Red Hat Certified System Administrator” (RHCSA)**
- **Linux Professional Institute (LPI) Certification**
- **BS Tech. in Computing**, Dublin Institute of Technology (DIT), Dublin, Ireland (2010)
- **IBM RS6000 and PSSP Administration** – IBM (2003)
- **Hardware Maintenance** – Region of Umbria
- **Animation Cinematography using New Technologies** – Region of Umbria
- **Italian Navy Academy**
- **High School Diploma**, emphasis Computer Science

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, others); MS Windows; Apple MacOS 8.x–X; IBM OS/2 2.x–4.x; OpenVMS 7.3/8.3
- **Shell Scripting:** Bash, Ksh
- **Programming Languages:** C/C++, Pascal, Fortran, some Assembly (z80, x86); TCL/TK, HTML5, CSS, Javascript, PHP
- **Clusters:** Veritas, Red Hat
- **System & Server Admin:** LDAP, Apache, SSH, Proxy, NFS, Samba, e-mail, multipath, mdadm, LVM, etc.
- **Network Administration:** knowledge of Cisco routers/switches, FORE ATM switches
- **Backup:** EMC Legato NetWorker, Bacula
- **DB:** Oracle 8–10, MySQL 4–5
- **Virtualization:** IBM LPAR, K/Qemu, KVM, VirtualBox, VMware vSphere, Docker, Kubernetes.
- **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 (advanced both written and spoken)

Personal Projects & Interests

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

- 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, Arduino μ controller and various sports as swimming ([Italian Swimming Federation](#) Instructor and Lifeguard), baseball, basketball, volley, table tennis, fishing and others.

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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.