Curriculum-Vitae
of
Stefano Coletta

Personal data

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Studies

- High school certificate: "Industrial Chief Expert with specialization in Information Technology" taken at the Industrial Technical Institute G. Maxwell of Rome in 1992 with a score of 45/60.
- Microsoft MCSA certification in 2004.

Studies in progress

- ICT security, Incidents Response & Hacking (penetration test, reverse engineering)
- *nix
- PHP
- HTML and CSS
- Advanced Bash programming
- Database management (MySQL & Microsoft SQL Server)
- Extreme programming
- Children psychology

Languages (English): CEFR self-assessment

Understanding: Listening B2 *(vantage)*, Reading C1 *(effective operational proficiency)*
Speaking: spoken interaction B1 *(threshold)*, Spoken production B1 *(threshold)*
Writing: B2 *(vantage)*
Other language skills: excellent knowledge of technical computers language, good knowledge of technical electronics language.

Courses, seminars and stages

12/02/2009	Project Management course.
04/02/2009	CWDM (Coarse Wavelength Division Multiplexing) theoretical course.
10/07/2003	BGP "anycast" for Root Name Servers replication presented by Paul Vixie (author of Bind and president of ISC) at the University "La Sapienza" of Rome.
28/10/2002 29/10/2002	Tutorial IPv6 (address space, configuration ICMP, routing, DNS, migration strategies from IPv4, tunneling and security) with live sessions (Linux, FreeBSD and Windows 2000/XP implementations, Mobile IPv6 & Wireless, gaming on-line, connection with the GARR 6net network). Tutorial organized by: project GARR-B, CNR, European project 6net and CASPUR.
04/02/2002	ICT security meeting organized by I.Net S.p.A. Discusses arguments: present laws about ICT security, analysis and development of an effective security system.
22/03/2001	Red Hat conference: High Availability with Linux Clustering
08/11/2000	Microsoft conference: "Exchange & Collaboration Solution Conference"
08/02/2000	Microsoft TechNet conference: "Windows 2000: planning the infrastructure, installation and migration"
25/01/2000	Microsoft MSDN conference "MSDN Office Developer Conference": MSDE, Access 2000 (client/server), Deployment and Distribution, Office Web Components client side and server side, deep analysis of possible problems during migration from complex MDB files to ADP projects.
02/12/1999	APC conference "Non-stop networking training".
03/10/1999	Microsoft SMAU '99 conferences for TechNet and MSDN on networking, SQL server, audio/video streaming on the Internet, InterDev, VizAct and Visual Basic programming.
27/05/1999	Microsoft TechNet conference "Access > SQL Server migration"
11/05/1999	Microsoft TechNet conference "From Windows NT 4.0 to Windows 2000"
23/03/1999	Microsoft TechNet conference "SQL": SQL Server 7.0, OLEDB, ADO.
18/03/1999	Cisco Systems seminar on networks security using PIX Firewall, Cisco IOS, CiscoSecure Access Control Server, Active Audit NetSonar and NetRanger. How to implement secure Virtual Private Networks for the interconnection of remote offices and mobile users. Implementing secure extranets by using VPN, IPsec and ciphered data systems. Possible solutions for e-commerce.
25/07/1998	Microsoft MSDN seminar on multidimensional databases (OLAP) for Data Warehousing, distributed applications analysis and debug with Visual Studio Analyzer, Microsoft Repository and Visual Source Safe.

Information technology skills

Operating systems

- *nix based systems
- Microsoft Dos/Windows 9x/Me/NT/2K/XP/2K3 Enterprise (MCSA)
- Amiga Technologies AmigaOs

Programming

- **C/C++**: ANSI, Borland C++, Microsoft C++ and SAS C
- **Basic**: Microsoft Visual Basic, Microsoft QuickBasic, AmigaBasic
- **Pascal**
- **Web**: **ASP** (Microsoft), **PHP**
- **Assembly**: **x86** (Windows/Linux)
- **Scripting**: **Bash, Rexx, ARexx** (Amiga)
- **SQL** (ANSI, MSSQL, PostGreSQL, MySQL)

Programming platforms and development libraries
- **Operating systems**: Win32, Linux/Posix, AmigaOs, Ms-Dos
- **Database**: DAO, ADO (Microsoft), ADODB (Open Source), Perl::DBI, SQL-Shell
- **Libraries**: Google Maps API, MFC, ATL and STL (Microsoft), OWL and TurboVision (Borland)

Self-developed software libraries
- **OLO2OLO** (PHP 5): OLO interconnection to comply to the Italian law enforced by AGCom 274/07/CONS.
- **GrandStream Provisioning suite** (PHP 4): CPE VoIP Grandstream provisioning library
- **Mediatrix Provisioning class** (PHP 4): CPE VoIP Mediatrix provisioning library
- **Abstract Web RPC class** (PHP 4): RPC web library to support interoperation with legacy applications
- **IP Management** (PHP 4): IP address space management library (ISP class)
- **XML light parser** (Standard C++): light parser for XML v1.0 files
- **Memory library** (Amiga C): dynamic memory allocation at a low level
- **String library** (Amiga C and standard C++): characters strings handling
- **Time library** (Amiga C): useful time calculation functions
- **RS-232 library** (Ms-Dos C): basic serial interface functions
- **GUI library** (Ms-Dos C and C++): useful library to implement simple graphics interfaces in text or graphic mode
- **Container classes** (Visual C++): lists, queues, stacks, graphs and trees using templates
- **Vector classes** (Standard C++): basic vector calculus functions with three dimensions
- **Console I/O emulation library** (Amiga C): emulation of conio.h library of Borland to make MS-DOS based programs porting on the Amiga platform an easy task
- **Date & Time classes** (Standard C++): advanced classes to manage dates

Database

- **Microsoft:** Access, SQL Server
- **Oracle**
- **Open Source:** PostgreSQL, MySQL

Systems engineering

Application servers / Web servers
- **Microsoft:** Internet Information Server
- **Apache Software Foundation:** httpd/PHP, Jakarta Tomcat
- **IBM:** Websphere
- **BEA:** Weblogic

Applications
- **Mailing**: majordomo, GLMail (NTMail), Lyris, qmail, Exchange, sendmail, Communigate Pro, Squirrelmail, IMP, Merak
- **FTP**: ProFTPd, WuFTPd, Microsoft FTP, Serv-U
- **CRM/KB**: OTRS (Open Ticket Request System),
- **VoIP**: PortaOne
- **GSM**: smstools

Virtualization
- **VMWare**

Server
- **Sharing/File**: NAS, SAN, NFS, DFS, SMB
- **Web hosting**: Sphera, Sun/Cobalt appliances, Ensim, Windows & Linux native
- **Management**: KVM, Minicom, Phantom Specter, WebMin, HP ILO
- **Servers**: Linux, Solaris, HPUX, Tru64, FreeBSD, Microsoft, Sun/Cobalt, Amiga

Networks & services
- **Protocols/networks**: IP, TCP, UDP, NetBeui, AppleTalk, POP, SMTP, IMAP, FTP, DHCP, SNMP, SSH, HTTP, SSL, RDP, RMI, DNS, NAT, RADIUS, WebDAV, VCCP, STP, VTP, VNC, 802.11, T.30 (Fax), T.38 (FoIP), SIP (VoIP), RTP, PPTP, PPP, PAP, CHAP, LDAP, QoS (basic knowledge of OSPF and BGP)
- **Transmissions**: CDN, CVP, DSL, ISDN, RTC, Wi-Fi, optical fibers.
- **Domain**: Bind, Microsoft DNS, Dynamic DNS
- **Monitoring**: MRTG, Nagios/Centreon, IP monitor, VQ Manager, SolarWinds
- **Caching**: Cisco Cache, squid, WinRoute
- **Devices**: Cisco, 3Com, Intel Networks, USRobotics, ZyXEL, Fortinet, Billion, MikroTik
- **CPE VoIP**: Mediatrix, Cisco, Sipura, Welltech, Zyxel, AVM, Grandstream, AllNet, Patton, Thomson, Billion

Security (servers/networks/systems)
- **Firewall**: ACL Cisco Router, Pix/Asa, Fortigate, iptables, ipfw, Kerio, pfSense
- **Hardening**: Windows, *nix, Cisco Router/Switch/WiFi
- **UPS**: APC, Riello
- **Content filtering**: WinRoute, Wingate, squid, FortiNet
- **Backup/mirroring**: amanda (Advanced Maryland Automated Network Disk Archiver), Retrospect, flexbackup, CopyTo, Unison, Super Flexible File Synchronizer
- **Antivirus client/server**: TrendMicro, AVG, McAfee, Symantec, Fortinet
- **General**: GPG/PGP, S/Mime, VPN, PKI, IPSec, SSH, SSL

Security (crackin'/hackin')
- **General techniques**: footprinting, scanning, enumeration, easy social engineering, DoS, back doors, trojans, rootkits, handcrafting simple exploits, password guessing, eavesdropping, tracks covering, privilege escalation
- **System cracking**: Windows, Linux, HP-UX, Tru64, SunOs
- **Network cracking**: wardialing, wardriving, brute force, firewalking, sniffing, spoofing, flooding, arp poisoning, mail bombing, protocol reverse engineering
- **Software cracking**: web crawling/attack, session hijacking, basic reverse engineering java/asm x86, SQL/HTML injection, XSS
- **Cryptology**: algorithms reverse engineering, cipher cracking
- **Prevention:** security/vulnerability assessment, penetration testing, security auditing, IDS & IPS
- **Incidents Response:** forensic analysis, disaster recovery, cracker hunting

Design
- **Clustering/HA/NLB**: Tomcat, SQL Server, Windows, Exchange, Linux LVS, mysql, DHCP, RADIUS, Cisco Local Director
- **Web**: Web infrastructure sizing (e-commerce, anchor-sites, e-zine, newsletter, entertainment, intranet, etc.)
- **Database**: Analysis and development of complex schemas
- **Networking**: LAN, MAN, specialized for IDC and Wi-Fi (intranet, internet and extranet). High Availability services. VoIP & FoIP networks using SIP technology.
- **ISP/ASP**: Design and ideation of commercial products

Other areas of knowledge

Computer graphics
- **CAD**: Autocad (generic), Orcad and Eagle (printed circuits)
- **Raster/Vectorial**: Corel Draw, Paint Shop Pro, Photoshop

Management
- **ISP**: Logistics administration of hosting, housing, co-location, ASP and networking.
- **Help Desk**: internal/external for workgroups
- **Security**: ICT security answerable, Tiger Team leader
- **Development**: Project leader for systems or software development teams

Documentation, procedures and logistics
- Communicative and creative skills for presentation of projects
- Excellent skill for documentation writings and systems organization
- Documentation/procedures management using ISO 9001 quality rules
- Excellent skills about synthesis, completeness and clarity for writings
- Excellent skills about writing reports in Italian language, good skills about writing reports in English language

Other ICT competencies
- Problem solving attitude for the majority of the ICT skills
- Excellent provisioning and planning skill related to backup and disaster recovery scenarios
- Good skills about classic or object oriented programming practice; takes care of performance and security aspects of programming
- Teaching (in particular programming languages)
- Excellent skills about search/analysis/evaluation of new technologies/opportunities concerning software/products/practices.

ICT vocational guidance

Bearing in mind that a mixed approach to technologies is always the best way to choose the product/platform/system closer to the requirements, he prefers *nix systems, C/PHP coding, open source technologies and the philosophy lying behind these worlds.

As a result of his working experience he avoids persisting only on few technologies/vendors. He is always open to new challenges regarding the evaluation of new solutions: he naturally pays attention to the financial, technical and contextual aspects of the newly identified opportunities. He always prefers a pragmatic approach to identify solutions without sacrificing its life expectancy factor (if it is an important driver), its flexibility or completeness.

His favorite quote is: a good solution is often better than the best one.

Professional skills matrix *(ordered by level/experience)*

Skill/environment	Field	Level	Last usage	Experience
Windows	Computers	Expert	Currently in use	13 years
C/C++ coding	Computers	Expert	2004	10 years
Writing technical documentation	Computers	Expert	Currently in use	11 years
Security	Computers	Expert	Currently in use	7 years
Networking	Computers	Expert	Currently in use	7 years
Linux	Computers	Expert	Currently in use	9 years
Amiga	Computers	Expert	1994	6 years
Tiger Team leader	Project Management	Expert	2008	5 years
Team leader for software development	Project Management	Expert	2007	5 years
Team leader for Win/*nix/Net sys engineers	Project Management	Expert	2003	3 years
ISO 9001 quality	Quality	Expert	1999	3 years
Technical teaching	Education	Expert	2001	3 years
Database	Computers	Intermediate	Currently in use	6 years
Business planning and logistics	Management	Intermediate	Currently in use	5 years
Bash coding	Computers	Intermediate	Currently in use	4 years
Web coding	Computers	Intermediate	Currently in use	5 years
VoIP/SIP	Computers	Intermediate	Currently in use	5 years
Visual Basic coding	Computers	Intermediate	2008	4 years
Devices assembling / prototyping	Electronics	Intermediate	1999	4 years
PHP coding	Computers	Intermediate	Currently in use	4 years
BSD/Solaris/HPUX/Tru64	Computers	Novice	Currently in use	4 years
Business Analysis & Development	Management	Novice	Currently in use	2 years
ASP coding	Computers	Novice	2001	1 year
Boardgame design	Entertainment	Novice	Currently in use	2 years

Other non ITC competencies

- Good mediation skills
- Excellent skills about job organization (from his point of view, and for other people)
- Good speaking skills "salesman like": he's able to attract people with innovative products, solutions or methodologies
- Good spoken and written communication and synthesis skills
- Good persuasion skills: often he's able to make people change their mind about certain arguments or habits
- Excellent generalization, abstraction and standardization skills about processes

Professional experience

2008-present	**Unidata**: VoIP is his new main duty along with being one of the architects for internal systems.
05/09/2007	**Unidata**: promotion to technical answerable of the security division.
22/05/2007-1/10/2007	Consultant for the German game company **Pro Ludo** about the project "Rise of Nations": the conversion of the famous Microsoft PC game to the homonym board game version.
19/01/2004	**Microsoft MCSA certification**: Managing and Maintaining a Microsoft Windows Server 2003 Environment.
02/07/2003	Employed as Senior Systems Engineer by the ISP **Unidata S.p.A.**

Major duties:
- Network/systems/applications/infrastructures designer (effective)
- Senior systems engineer for Linux/Windows/Networking (effective)
- Senior software/DB developer (effective)
- Tiger Team leader for Pen-Testing and Security services (left on 2008)

Other duties:
- Logistics revision and reorganization of Unidata IDC procedures and workflow for internal technical personnel (networking, security and farm) using the ISO 9001 quality approach (left on 2004)
- 3rd level support for customers help desk (general support left on 2005, re-engaged on 2008 for VoIP services)

Current projects (ordered by importance/complexity):
- Continued development of the Zeus web application: IDC management, support for all kind of connectivity services, global IP address space awareness, housing, hosting, DNS, hardware inventory, rack space management and credentials storage.
- ICT compliance to the Italian laws about Privacy: study of the laws, comparison or laws requirements against the ICT infrastructure and internal procedures, identification of possible solutions, project design and management, technical implementation of some identified solutions.
- Univoice: improved systems stability, automated backup, full HA, platform upgrade and fine grained monitoring.
- Maintenance of the internal Knowledge Base.

Closed projects (from the earliest):
- SOX certified shared credentials repository.
- VoIP counter frauds system
- Strong authentication VPN hub realized by using GSM SIMs (consists exclusively of open source softwares and Bash scripts)
- OLO2OLO: application the permits the dialogue between Italian OLOs to ease the migration of DSL lines along with number portability issues between Italian ISPs (implemented with Linux/Apache/PHP/MSSQL).
- Ground up restoration of the Help Desk department, procedures and tools
- Realization of the internal web Knowledge Base (for general and technical

purposes): technical maintenance and main content editor

- 100 pentesting sessions (about 700 working days) for major customers.
- Design of products and services (marketing aspects included) for the security division: task also includes writing technical papers and operative procedures.
- Smart-One (project suspended): pentesting-automation framework that features artificial intelligence, XML database, custom network protocols, distributed computing, multiplatform installation (personal involvement: design of the core system, development team leader, technical documentation writer).
- Office automation application called Smart-Report. It is used for automatic composition of technical documents and formal reports.
- Zeus web application. Semi-automatic system to configure, manage, troubleshoot and provision customers CPEs, connectivity links and IP address space. Developed using PHP, MSSQL, mySQL, many PHP libraries and some Java libraries: fully integrated with many Unidata internal systems for inter-ISP data communication, Workflow software, VoIP systems, Alcatel networking platform, administrative systems and client/server devices.
- Univoice platform. A complete VoIP infrastructure implemented with SIP technology. Developed parts of the project include:

  - installation of Unidata self-made custom servers with FreeBSD and Porta-Billing software
  - Platform hardening using firewalls, private networking, strict database customization and massive monitoring system
  - HA configuration on every software/hardware component to achieve 99.999% uptime for telephony services.
  - CPE testing and certification for consumer and business users
  - Writing of technician manuals and end-user guides for CPEs.
  - Writing of preventive disaster recovery procedures and specific bare-metal recovery utilities
  - Development of provisioning tools
  - Support for software development area to equip VoIP infrastructure with necessary services.
- Global RADIUS authentication for Dialup, WiFi, Router, ADSL and free internet. Implemented in High Availability configuration using a mixed cluster of Linux Mandrake and Windows, load balancer and Cisco firewall. Microsoft SQL Server configured for multi-master replication and Radiator as RADIUS server.
- Hosting environment for e-commerce sites. Implemented in High Availability using only free software. Cluster of Red Hat Linux servers, load balancer and Cisco firewall. Apache web server, real-time file-system replication with Unison and mysql as database with master/slave replication.
- Global monitoring system for network/hosts (about 500 hosts and 100 network devices) realized with the open source software Nagios. The software has been customized with a lot of patches written in C for Linux to satisfy the company needs. The system includes an SMS gateway and several monitoring agents that have been developed to check non standard services.
- Design, deployment, tuning and hardening of the new IDC network of Ponte Galeria place. Migration from non high availability Intel network environment to a Cisco powered network using HA strategies. Major changes include: new fiber optics rings with double uplinks to distribute the traffic to the server racks, installation of redundant environments to host Mission Critical applications and optimization of network and IP addressing segmentations.

While in the major projects:
Collaboration to various open-source projects (used by the company) with patches, debugging and custom changes using C, Perl and PHP.

Major customers of Unidata include: Telecom Italia, Comune di Roma, Provincia di Roma, Cable & Wireless, Sacro Militare Ordine di Malta, Postecom, Vaticano, A.M.A., CGIL, CISL, Rifondazione, Alleanza Nazionale, Democratici di sinistra, Guardia di Finanza, Carabinieri, Hilton, Aeroporti di Roma, Air One, Yale, Caspur, Autostrade, D.E.A., CNEL, Ministero Beni e Attività Culturali, Istituito Universitario Scienze Motorie, Motor City, CASPUR, Auditorium, Festa del cinema di Roma.

01/01/2003 Resume of the **Mind Creations** activity. Consulting and development of the company include (from the earliest):

03/02/2003 Global security, systems engineering and applications consulting for the ISP **Unidata S.p.a.**
- Optimization and management of the present network
- Merging of two AS "Cable & Wireless Italy for their Rome network" and "Unidata"
- Global monitoring system for the entire ISP network (500 hosts, 200 network devices installed on a city MAN). Integration/adjustment with ISO9001 procedures, reporting and help desk
- Penetration test and vulnerability assessment performed on Unidata customers
- ASP Linux/Windows environment deployment for applications/sites hosting realized with Hosting Director of Sphera
- Internal/external ISP services implementation realized with the aid of Linux open source software:
  > Perimeter/server firewalls implemented using iptables
  > Surveillance of the integrity of critical systems implemented using tripwire
- Internal assistance for installation and configuration of Linux based systems for the Hardware Manufacturing department

15/01/2003 Collaboration with **Dada S.p.A.** for migration of xmedia housed customers located in the I.Net S.p.A. datacenter.

01/04/2002 **xmedia**: Promotion to CISO (Chief Information Security Officer)

01/12/2001 **xmedia**: Help Desk upgrade of ASP team for major clients on a H12x5 way

26/01/2001 **xmedia**: Promotion to CIO (Chief Information Officer) and ASP answerable

02/10/2000 Employed as senior systems engineer for **xmedia S.r.l.**

Main goals achieved during the xmedia work period (from the earliest):
- Security hardening for entire ICT systems (both host and network level).
- Corporate ICT structure optimization and implementation of policies and procedures for administration and security.
- ASP commercial development: hosting, housing, connectivity, ASP mail, monitoring, help desk, traffic analysis and technical consulting.
- Planning of new ICT structure for the new headquarter with a dedicated Server Farm used mainly for intranet systems, housing/hosting of internet sites and ASP applications. Technologies used for the project are:

- – Structured cabling fiber/copper (load 70 clients/50 servers)
- – 100% Cisco switched network with 1Gbps fiber optic backbone
- – Windows Clustering & Linux for intranet systems and networking
- – Real-time monitoring (350 24h monitored services) with SMS alerts to the ASP team (H12x5)
- – External/Internal and Internal/Internal Firewalling
- – Real-time traffic monitoring (by protocol & IP src/dst)
- – Port/Segment/Virtual Host real-time traffic monitoring & traffic shaping
- – Etherchannel trunking for main servers
- – Fire-prevention systems with automatic fire extinguisher (using gas) & water flooding prevention
- – Physical intrusion detection systems and access logging (badge)
- – Alcatel PBX with logger
- – Timesheet controlled access for external/internal doors and personnel detection (with badge)
- – Server farm realized using double conditioned-air systems and electronically controlled temperature
- – Server farm and network electrical protection with UPS and separate electric panels

- Renewal, installation, configuration and maintenance of intranet and extranet system with the xcontent S.r.l. Implemented solutions are in detail: web intranet, file sharing Linux/Apple/Windows, centralized unique authentication, internal/external security systems, high level security mail server, clustering, DHCP by MAC address, collaboration tools and team management solutions, project management solutions, documents repository, internal web portals, global monitoring and logging, automatic and centralized backup system, development of procedures for creating development sites, calendaring and tools for information sharing.
- Planning, maintenance and technical ASP implementation of these xmedia produced web sites: www.35mm.it, www.zapping.it, www.cornettoalgida.com, www.ilfoglio.it, www.aci.it, www.studiouniversal.it, www.immedia.it, www.e-duesse.it, www.cinemeccanica.it, www.thespriters.it, www.xmedia.net, www.uip.it, www.adriano.cecchigori.com, www.designboom.it, www.wowitaly.com, www.medusacinema.it, www.medusa.it, www.medusahe.it, www.teatromanzoni.it, www.fininvest.it, www.meetingdirimini.org and www.cinema5.it.

01/04/1999 Founder of **Mind Creations**, a self-employed company working in the ICT field.

Consulting and development of the company include (from the earliest):
- Consulting for the implementation of security systems and networking for 175A De Angelis S.p.A. and Leonardo Business Consulting S.r.l. in Rome.
- Complete network administration of xmedia S.r.l. company (Multiplatform network: Microsoft/Apple/Linux based/Sun) with 30 server and 60 users.
- Consulting & development of Web portals for Be Smart S.r.l. using ASP, Visual Basic DLL, SQL Server 7.0 and IIS on Windows 2000 platform.
- Realizing the analysis for the reconstruction of an RDBMS related to marketing and promotions, mailing lists and contacts for Business International S.p.A. for Internautilus S.r.l.
- Realizing the analysis for a new archive system for the photo archives of the Archaeological superintendence in Rome for Internautilus S.r.l.
- General computer consulting for 175A De Angelis S.p.A. in Rome.

- DBA and technical support for Dynatechnics S.r.l. global database.
- Realization of an application + RDBMS for the management of purchases & sells of video reproduction rights at global level for SD Cinematografica S.r.l.
- Development of utilities in C, C++ and Access 97 as appendices of bigger works, developed at the client sites.
- Development of control software interfaced to a proprietary biomedical apparatus in cooperation with Dynatechnics S.r.l. The apparatus was used to decrease smoking addition.
- Assistance for technical hardware problems & networking issues for little/medium sized societies.
- Web sites: consulting, development and maintenance.
- Consulting for logistics and office-automation reorganization.
- Consulting on installation and configuration of extended LANs.
- Realization of a RDBMS for the automatic management of fax offers templates.
- Realization of a RDBMS to manage satellite decoders of Eurosport for AVT S.r.l.
- Realizing a course of intermediate level on Visual C++ of the duration of 3 weeks for I&T (Informatica & Telecomunicazioni S.p.A.)
- Logistics and technical reorganization interventions of ISP "Eurodatabank".

1994-1999 Co-founder, with two other partners, of **Dynatechnics S.r.l.**, agency specialized in developing and producing electro medical apparatuses and custom electronic devices.

Major duties:
- Responsible software analysis and development
- Responsible of quality (**ISO 9001**)
- Responsible for documentation developing
- Responsible for design developing
- Logistic coordinator for the agency.

Other duties developed in different periods:
- Active participation in the management of the relationship with the client, marketing, of the planning concerning production and general directions of the society
- Network administrator
- CAD/CAM Designer/Operator (electric schemes, printed boards and mechanic)
- Study of **CE** mark (CEI rules, IEC, CEE directives, etc.)
- Graphic and technical designer
- Co-responsible re-furnishing materials for production
- Laboratory technician for assembling, testing and assistance of apparatuses
- Stock manager

Computer science and custom electronics division

- Autonomous system in fiber optic between the radar for traffic control and the Control Center of the Linate airport in Milan
- Hardware VU-METER overprinting on MPEG digital VCR
- Control systems of some videogames sited in Luneur of Rome
- Cooperation for testing and debugging a dedicated audio-video system for MPEG broadcasting in real time.

Projects and activities from 1994 to 1999

Electro medical division

- Electronic epilators with needle, tweezers and clamp (4 models)
- Electrolipolisys with plates and needles (2 models)
- Electronic stimulators for face and body (4 models)
- Electro sculptures for face and body (4 models)
- Portable T.E.N.S.
- Ionophoresis
- Therapeutic laser
- Press therapy

Developed software for internal administration (coded by myself)

- Proprietary system for acquiring and processing electronic signals through GPIB card from an Advantest spectrum analyzer (MS-DOS Turbovision C++)
- Proprietary system to estimate production costs of Dynatechnics devices (MS-DOS C++)
- Software to program the ISD1010/1020 chip (MS-DOS C)
- Software to program the ISD33xxx chip (Win32 & DirectX C)
- Global management system for the society: active and passive invoices, management of customers and providers, automatic faxing for orders and offers, storage administration interfaced with bar code readers, general finance, commercial management, production scheduling, digital signatures, ISO 9001 quality administration, production costs, statistics, employees presence management and other proprietary functions strictly related to the company needs (coded in Access 97); all of the above running in a peer-to-peer LAN with secured multi user access to system functions.

1994 Development of Italian Studies department data bank for "La Sapienza" university of Rome for EMMEPI Computers s.n.c.
After, connection of the data bank with the student's database of department.

1992 Cooperation for the development of an administrative program customized for Dixco CD-Store of Rome (MS-DOS C).

1991 Development of a fax-on-demand system for TARGET 90 on Telecom Italia commission. This software has been used by *InSip* stores for marketing promotions.

1988-1994 Private parties animation as Deejay using vinyl discs, samplers, keyboards and computers (computers have been used with "Soundy", a software made by myself and distributed as shareware on the internet; at the moment is distributed as open source software).

Military service

Released. Service performed as conscientious objector at the Archaeology Superintendence of Rome.

Duties: extra employee in the CED (data processing center) of Palazzo Massimo (administrative building of the superintendence) with the following tasks: junior system engineer, analyst/programmer with (Microsoft Access 95/97 and C/C++), hardware technician and internal help desk.

Attained projects for the superintendence:
- Electronic price list realized with Access 95 for estimates writing. The archive has been converted and modified from an already existing hierarchical database located in a Bull mainframe sited at PGS (National General Superintendence);
- Automatic handling of the ordinary division of funds for archaeological sites maintenance and restoration (realized with Access 95);
- Analysis and planning (with Access 95) of the automation system for the distribution of official documents (like newsletters, gazettes and announcements) inside the superintendence.
- A distributed library's analysis – trough the superintendence's WAN - using Microsoft technologies.
- Upsizing and improving LANs and WAN systems among the various superintendence buildings. Physical installation and configuration of wireless bridges "radiolan" with patch antennas. Bridges were provided by Telxon (now acquired by Cisco Systems).

Other relevant tasks performed during the service:
- Teaching of relational database architectures and their development techniques (practice with Access 2.0 and Access 95)
- Teaching of OOP programming techniques (practice with C++ and Visual Basic)

Other experiences

2009-today	Authoring of two guides published in wiki form on the internet: "Boardgame newbie guide" and "Children buyers guide"
	Research in the field of board games (and games in general) to produce an experimental containment hierarchy to describe the complex world of games.
	Development of the experimental system called "Board games AutoRanking" (based on the aforementioned containment hierarchy) useful to automatically suggest the best games for an individual, based on personal preferences; the system has been realized with simple statistical and artificial intelligence techniques. At this time only a prototype exists.
2006-today	Complete rules rewriting (about 100 pages) of the board game "Civilization: The Boardgame, Sid Meier's" published by Eagle Games in 2002: the kit named CHR includes new cards, accessories, reference sheets and a PC abacus written in Visual Basic built on Excel. The game has been published on the internet both in English and Italian language during January 2008.
2005-2006	Study & design of tech furniture (aesthetic form by his wife Stefania): a desk for 2 PCs, a professional Home Theater system built into a bookcase and a living room furniture. Projects have been manufactured by a professional carpenter.
	WiFi experiments to build a district MAN network in collaboration with Unidata.
2004	Participation in cultural events as "Linux Day", organized by LUGs (Linux User Groups) of Italy.

2002-2004 Full restoration of a residential apartment.
The following has been designed/realized by means of consulting some expert folks.
All of this has been highly fine tuned by myself.
(D=Designed, R=Realized)
- (D,R) semi-professional home theater system
- (D,R) multizone diffused audio system
- (D,R) advanced electrical distribution with UPS
- (D,R) copper wired network
- (D,R) little Server Farm
- (D) heating system
- (D) water distribution
- (D,R) RTC wired network
- (D,R) TV/SAT distribution

1999-Today	Concept, development and management of his personal site www.mindcreations.com. The site is hosted on his own servers located in his own personal "datacenter" with forum, gallery, DNS server, web server, database server, application server, backup systems, networking facility, security and hardware maintenance made in house.
1994-1999	Technical handwork experience for: electric, phone and pneumatic cabling.

1994 Journalist for the magazine "Banche Dati" and "Punto informatico" magazine.

1990-1999 Teaching general computer science, C/C++ programming, OOP concepts and networking to single persons.

1988-1998 Founder and System Operator (SysOp) of the recreational BBS "Antanisoft Group Research" in Rome. More than 9.000 users, more than 10Gb of data on-line, 4 lines 24h, Internet connection via Telnet, Web and Newsgroups, managed by 30 volunteers.

The BBS has been involved in the birth of various successful projects like:
- The online technology newspaper www.punto-informatico.it
- The website www.turbozaura.it
- The website www.barzellette.it and related books about jokes
- The first BBS roman network named A-Net by using the FidoNet technology

Among various activities carried out during its 10 years of life, these are worth to be mentioned:
- tour operator like trips to visit the SMAU Milan Convention;
- thematic BBS parties and dozens of real meetings, often up to 60 users;
- the accessibility to the Italian Postel service;
- the implementation of the first forms of MUDs (Multi User Dungeon) around 1995, now evolved into MMORPGs;
- BBS + internet integration to give users the ability to surf the net while staying connected to the BBS.

In 1996 the BBS has been taken into consideration by the Italian public television network "RAI" that has realized a live interview from the BBS HQ during the show "Mixer - Caro Diario".
Some school institutes like the "Istituto Gerini" of Rome have made use of the BBS as test exam and training tool for students of the computer lab.

1998-Today The recreational BBS has naturally evolved itself in a simple newsgroup to let their user meet while giving way to the internet.

1987-Today Software development (from the earliest):

- Antispamming *white list* sofware called "No More Spam" that guarantees the 100% deletion of unsolicited e-mails without accidental loss of valid e-mails. Created specifically for the Stalker Communigate Pro mail server. Written in C on Linux (multithreading).
- General purpose artificial intelligence system called A.D.A.M. (**A**dvanced **D**evelopment of an **A**rtificial **M**ind), coded in ANSI C++, multi platform and adapted in 1994 to run on-line on the BBS (door).
- S.D.R.A. : **S**istema **D**istribuzione **R**isorse **A**utomatico. A tool used to equally assign turns to the exhibition/congress personnel presiding halls and working centres. Written in ANSI C with a proprietary self-organizing algorithm.
- Advanced Personal Organizer "Big Brother" with complex scheduling and complex data storage and retrieval.
- Home database for VHS, CD-ROM and DVD, coded in Access 2000
- Watchdog ("Guardian"), coded in C to guarantee the BBS service 24h uninterrupted.
- RPG "Warhammer", coded in C for Amiga (real-time multi user software, client/server, multithreading) running on Xenolink BBS software.
- Live management of disco music ("Soundy"), coded in C for Amiga
- Many "doors" in C and ARexx for the BBS on PC and Amiga.

1985-1987 Development of text based games using Commodore 64 Basic (simulations, adventures, simulated war and hacking)

1984-1985 Development of very simple applications/games using Commodore VIC-20 Basic

Personal interests (from the most important)

- Family
- Great passion for the information technology field, starting from when he was ten (1984), following networking in 1987 and coding in 1989.
- Board games, Role playing games (RPG) and comics
- Cinema and music
- Science in general and technology
- Hacking and security
- Videogames
- Disinformation
- Pure OOP programming using C++
- World traveling
- Studying of: artificial intelligence, expert systems, genetic programming, fuzzy logic, neural networks, algorithms optimization and high quality programming.
- Psychology, sociology and religion
- Photography
- Nature and ecology
- Using of audio devices like MIDI keyboards, mixers and samplers.
- Playing piano (beginner skill)
- Sport: Breakin'/FreeStyle/HipHop, Biking, trekking, fitness, swimming and canoeing
- Retro computing
- Literature: horror, adventure, fantasy and fiction
- Movies on the making side. With friends he created a simple amateur short cyberpunk movie including: concept, filming, screenplay, make-up, lights, special fx, audio mixing and titles.

Professional interests

Working in a serious, efficient and well organized company, where the human factor is taken into the right consideration; performing a **creative** task in a team or alone. To avoid routine is a primary goal to enhance personal knowledge and skills. Continuous upgrading and training on the job are essential to achieve personal satisfaction.

Designing and maintaining systems/objects/documents/etc. that have a wide audience (both for catchment area and visibility) it is a primary goal for his personal satisfaction.

Characteristic profile

He's fond of accuracy, optimization and details care.

He deplores confusion, wasting, incompetence, stupidity and superficiality.

Helpful, forthcoming and tolerant with his colleagues. Tendency to efficiency, diplomacy and good manners. Quiet but extrovert nature. Performing the job he likes... an indefatigable one.

Really determined: nothing can be an obstacle when he wants to achieve his goals (but he's always a victim of the time).

For pure passion he likes to create "things", of any kind. This is the origin and the meaning of his nickname "Creator": originality is his obsession.

His personal improvement, in every field, scientific or humanistic, is the propulsion of his existence.