

Enrico Camarda

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System Engineer with a focus on automation, naming and documentation.

Work Experience

Senior System Engineer

Transporeon - Trimble - Transportation Management Platform | Ulm (remote) | Jan 2024 - Present

- **Event streaming platform**
 - implemented Kafka cross-cluster replication for Disaster Recovery, based on MirrorMaker 2
 - implemented Kafka monitoring by Zabbix
 - helped implement Kafka bridge for IAM events, based on Confluent connectors
 - contributed to Kafka GitOps and related Jenkins pipelines
 - managed Kafka service
- **Container system**
 - implemented Kubernetes Layer 4 Egress Gateway, based on spidernet-io egressgateway, managed by Argo CD
 - contributed to Docker image build/deploy workflows
- **Logging platform**
 - helped manage Elastic Stack
 - created Python scripts to aggregate data via Elasticsearch API
- **DevOps**
 - contributed to Ansible roles, AWX jobs, GitLab CI/CD pipelines
 - created Bash and Python scripts to automate tasks
- **Monitoring system**
 - helped migrate Icinga to Zabbix
 - helped implement Zabbix custom checks
- **Documentation**
 - contributed to designs and procedures

Senior System Engineer

Skylogic - Eutelsat - Broadband Satellite ISP | Torino | Nov 2009 - Dec 2023

- **DNS infrastructure**
 - created Hidden Master DNS for the company, based on BIND, supporting IPv6, DNS views, DHCP dynamic updates
 - helped implement Anycast DNS for customers, based on BIND, supporting DNS views, distributed in 2 sites
 - created DNS naming conventions for hosts, subzones, views
 - migrated legacy DNS infrastructures achieving zero downtime
- **Automation**
 - created Ansible inventories, playbooks and roles to:
 - * build and upgrade VMware Linux server templates, deploy and initialize Linux virtual machines
 - * configure Linux network IP addresses, routing, policy routing
 - * deploy and configure Telegraf agents on Linux servers, create related dashboards on Grafana
 - * update x509 SSL certificates on Linux web servers
 - created Python scripts to manage phpIPAM objects via API, Ansible inventories, BIND DNS records
 - created Perl scripts to build VMware reports via vSphere API and publish them in Confluence via API
- **Database infrastructure**
 - helped implement High Availability database infrastructure, based on MySQL, distributed in 2 sites
- **Virtualization**
 - led a massive migration from physical to VMware virtual of Linux servers, Load Balancers, NFS storages, maximizing virtualization in data centers
- **Integration**
 - created filesystem hardening rules for Linux web servers, based on POSIX/NFSv4 extended ACL and Bash scripts
 - created Radius and LDAP advanced configurations for intranet applications

- **Administration**
 - helped manage servers, SAN, storages, Linux OS, Fabric OS, services
- **Documentation**
 - helped maintain and improve designs and procedures

System Administrator

Zirak - Information Technology - Software Engineering | Mondovi' | Dec 2008 - Oct 2009

- **Video intercom system**
 - helped develop Perl and Bash code for a video intercom system, based on Linux and Asterisk
- **Administration**
 - managed servers, Linux OS, services

System Administrator

Fastbull - Official mirror of Free and Open Source Software | Torino | 2007 - 2017

- **Mirror infrastructure**
 - helped implement a mirror infrastructure for popular Linux distributions, SourceForge, Apache Software Foundation, based on FreeBSD, ZFS, Apache, become one of the top rated official mirror services in Italy
- **Administration**
 - helped manage servers, FreeBSD OS, services
- **Website archiving**
 - archived www.fastbull.org website on GitHub pages

System Administrator

CSP - ICT Innovation - Research body | Torino | Jul 2005 - Nov 2008

- **Web content filtering system**
 - created P-BOX, a system to transparently filter web content according to the Italian government blacklisting and regulation for ISP “Decreto n. 23, GU 08/01/2007”, based on Linux, EBTables, IPTables, Squid, Perl scripts
- **VPN system**
 - created a SSL/PPTP VPN system, based on Linux, Radius, LDAP, OpenVPN, PoPToP
- **Virtual Desktop**
 - implemented a virtual desktop PoC, based on VMware Virtual Desktop Infrastructure
- **Administration**
 - helped manage servers, FreeBSD OS, Linux OS, services

System Administrator

l'elettronica - IT for small businesses | Savigliano | 2004 - 2012

- **Internet and intranet services**
 - implemented in-house hosting of Internet services for lelettronica.com and amnz.org domains, based on FreeBSD
 - implemented intranet services, based on Linux, VMware, Samba, Apache
 - implemented firewall and VPN, based on pfSense and OpenVPN
- **email system**
 - implemented an email system for customers to build advanced filtering rules for messages, based on FreeBSD or Linux, Postfix, Fetchmail, Procmail, Courier, SquirrelMail with server side filters
- **Administration**
 - managed servers, FreeBSD OS, Linux OS, services

Certifications

- ITIL V3 Foundation | Skylogic | Torino | 2010

Trainings

- AWS day | Skylogic | Torino (remote) | 2020

- Agile course | Skylogic | Torino (remote) | 2020
- Red Hat Open Source Day | Skylogic | Milano | 2019
- Networktocode Ansible course | Skylogic | Torino | 2019
- BSDCan | Fastbull | Ottawa | 2015
- Advanced English course | Skylogic | Torino | 2015
- VMware Symposia | CSP | Milano | 2007
- NIC ccTLD Information Security course | CSP | Pisa | 2006
- TOP-IX F-ROOT DNS server installation overview | CSP | Torino | 2005

Tech Skills

- ISC BIND, djbdns, ISC DHCP, Cisco CNR
- Apache, nginx
- Postfix, Courier, Spamassassin, Amavis, ClamAV, Procmail, Postgrey, Fetchmail, SquirrelMail
- OpenSSL, OpenSSH
- OpenLDAP, FreeRADIUS
- syslog-ng, Rsyslog
- Telegraf, Grafana
- Elasticsearch, Logstash, Kibana
- ProFTPD
- MySQL, InfluxDB
- Kafka
- OTRS
- F5 BIG-IP, HAProxy, Squid
- NFS, Samba
- Git, SVN, Mercurial
- Ansible, AWX, Jenkins, GitLab, GitHub
- Bash, Perl, Python, AWK, Assembly 80x86, HTML, CSS, PHP
- IPv4, IPv6, IPTables, EBTables, IPFilter, IPFirewall, pfSense, IPerf, ExaBGP, OpenVPN
- CentOS Linux, Red Hat Linux, Debian GNU/Linux, Ubuntu Linux, FreeBSD
- VMware, KVM, LXC, Docker, Kubernetes
- Fabric OS
- HPE, Supermicro, Brocade

Soft Skills

- Professional attitude
- Problem solving
- Teamworking
- Intercultural fluency
- Commitment

Education

Bachelor of Science - Physics

University of Torino - Department of Physics | Torino | Dec 2004

Physics of advanced technologies

High School Technical Diploma - Informatics

ITIS of Fossano - Technical Institute | Fossano | Jul 1994

Informatics and telecommunications

Personal

- Sex: Male
- Date of birth: 1975-07-10
- Nationality: Italian
- Languages: Italian, English

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<https://www.amnz.org/camarda/resume.pdf>
<https://www.amnz.org/camarda/resume.html>
<https://www.amnz.org/camarda/resume.md>

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