



Alessandro De Donno

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Nationality: Italian

WORK EXPERIENCE

Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC)

City: Lecce | Country: Italy

[2021 – Current] **Senior Research Associate**

System administration and DevOps:

deployment and management of the private cloud infrastructure based on OpenNebula

deployment and management of the monitoring system based on Grafana, Prometheus, Loki

application containerization based on Docker

GIS and OPeNDAP data management:

configuration, deployment and management of several data servers (MapServer, ERDDAP, ncWMS, THREDDS)

data post-processing (in different formats, NetCDF and CSV among others)

HPC SCC data management

Development:

design, development and maintenance of the tools for managing input/output data of the operational chains

Taocomp S.r.l.s.

City: Lecce | Country: Italy

[2017 – 2021] **Co-founder, CEO, Computer Engineer**

Design and development of an Ansible-based tool for the automated deployment of private cloud environments equipped with firewalls, Kubernetes clusters, NFSv4 network storage, and S3-like storage.

Design and development of open-source PHP libraries for electronic invoicing (XML format management, SOAP server, SOAP client).

System integration.

Development of plugins for various CMS (WordPress, Prestashop).

Università del Salento

City: Lecce | Country: Italy

[2015 – 2017] **University research assistant**

Research program: "Cloud computing in the design and development of digital formats for education".

Clio S.r.l.

City: Lecce | **Country:** Italy

[2014] **ICT consultant**

Design and development of a virtual citizen service portal for e-government.

Logispin Limited

City: Gibraltar | **Country:** United Kingdom

[2012 – 2013] **ICT consultant**

Full-stack development (HTML, Javascript, PHP, Python).

System administration (GNU/Linux, Oracle).

Clio S.r.l.

City: Lecce | **Country:** Italy

[2009 – 2012] **ICT consultant**

Migration of the Unitelma private online university's e-learning platform (migration of the Moodle CMS, system security enhancement, implementation of ad-hoc Moodle modules).

Management of the student database for the online e-learning platform (ad-hoc development of modules for the Moodle CMS).

Design and development of the CLIOSLA information system. This system is designed to fulfill the technical specifications and quality requirements for the client's provision of Connectivity Services and Security Services to the RUPAR Puglia Community Network.

Design and development of the RaganetWIFI system. The system provides 802.11 connectivity to private users through hotspots located at businesses or public institutions. The hotspots use the existing connection of the business to establish a VPN tunnel with the client's devices, and then connect to the Internet. Businesses can send advertising campaigns to users via web, SMS, and email. The portal allows for the administration and management of users, hotspots, advertisements, advertising campaigns, etc., based on roles.

Clio S.r.l.

City: Lecce | **Country:** Italy

[2006 – 2008] **ICT consultant**

Development of core and application modules for the corporate e-learning platform.

Software development for IT systems tailored to the implementation of specialized services within Public Administrations. These services are oriented towards interaction both between citizens and Public Bodies and among Public Bodies. Development takes into account security issues related to TCP/IP network communication.

Prototyping and deployment of a GNU/Linux distribution based on Ubuntu, designed to run on diskless computers with user authentication via RADIUS.

Alca S.r.l.

City: Lecce | **Country:** Italy

[2004 – 2005] **Co-founder, CEO, Computer Engineer**

Automated configuration and deployment of satellite routers base on GNU/Linux.

Setup, configuration and installation of client desktops based on GNU/Linux.

Consultancy on:

- embedded systems based on GNU/Linux
- free-software e-learning platforms
- IT security

Università degli Studi di Lecce

City: Lecce | **Country:** Italy

[2004 – 2005] **ICT consultant**

Within the project "Completion and Enhancement of the Satellite E-Learning Center at the University of Lecce": fine-tuning and testing of the satellite transmission system; optimization of the functionality of the installed equipment and verification of operational reliability.

Università degli Studi di Lecce

City: Lecce | **Country:** Italy

[2003 – 2004] **University research assistant**

Research program: "Setup, configuration, improvements and porting to different architectures of routers based on the GNU/Linux operating system".

Progetti & Sistemi S.r.l.

City: Guagnano (LE) | **Country:** Italy

[2001 – 2002] **Web developer**

Design and development of the company website, based on LAMP software stack.

Università degli Studi di Lecce

City: Lecce | **Country:** Italy

[2003] **ICT consultant**

Installation, configuration, testing and deployment of a GNU/Linux-based satellite router.

EDUCATION AND TRAINING

[2003] **Qualification to practice the profession**

Università degli Studi di Lecce, Ordine degli Ingegneri della Provincia di Lecce

City: Lecce | **Country:** Italy |

[2002] **Master's Degree in Computer Engineering**

Università degli Studi di Lecce

City: Lecce | **Country:** Italy |

[1995] **Scientific high school diploma (PNI)**

Liceo Scientifico G. Banzi Bazoli

City: Lecce | **Country:** Italy |

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B1 **READING** B2 **WRITING** B1

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Operating Systems

GNU/Linux operating systems

SysAdmin/DevOps

Bash - Shell | Ansible | Git | Docker | Kubernetes | Microservices

Networking and Security

Network design and implementation (Switching, Routing, Firewalling, VPN, Wireless Services) | System Logging and Monitoring | System Hardening | Satellite Networking | Wireless Networking

Languages

Design Patterns | Regular expressions | PHP | C/C++ | Go | Python | SQL | HTML | JavaScript

Frameworks and CMS

Zend | WordPress | Prestashop | Moodle | Django

GIS

NetCDF | OPeNDAP | ERDDAP | MapServer | ncWMS | THREDDS

DBMS

MySQL | PostgreSQL | MongoDB | Oracle

Other web technologies

REST | SOAP | WebSockets | Ajax | YAML | JSON

Publishing and Office

LaTeX | Emacs org-mode | LibreOffice

PUBLICATIONS

[2017] [**Exploring a social-aware WebRTC-based P2P architecture for live video streaming**](#)

Reference: ICETC 2017 Proceedings

[2016] [**CHARMS for e-learning: a case study**](#)

Reference: INTED2016 Proceedings

[2016] [**Towards a decentralized overlay for real-time live streaming: CHARMS meets the web**](#)

Reference: IEEE 2016 SAI Computing Conference (SAI)

[2004] **Free as in freedom**

Reference: Frame - Bologna-Europa - N. 05 - Febbraio 2004

[2004] **LinuxDay 2003 - Lecce**

Reference: Linux Pro - N.11 - Gennaio 2004

[2003] **VideoLAN, la soluzione completa per lo streaming video**

Reference: Linux Magazine - Anno V n. 9 - Ottobre 2003

[2003] **Dal satellite a GNU/Linux**

Reference: Linux Magazine - Anno V n. 6 - Giugno 2003

NETWORKS & MEMBER-SHIPS

Associazione Culturale SaLUG (Salento GNU/Linux Users Group) Lecce

Founding member (2002), President (2002), Vice-president (2003).

HOBBIES AND INTERESTS

Meditation, Kung-Fu (T'ai Chi Ch'uan, Shaolin Ch'uan)

Reading, Writing

Personal knowledge/management systems

Philosophy, Politics

COMMUNICATION AND INTERPERSONAL SKILLS

Teaching and consulting for the P.O.N. project "Registro Online" (2008)

Contract for occasional intellectual work (Project P.O.N. Objective C Action 1 - "Online Register") at the Istituto Tecnico Industriale Statale "E. Medi" of Galatone (Lecce).

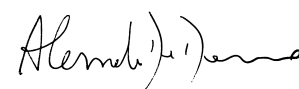
Teaching and consultancy activities for developing a web application based on LAMP to act as an online register for the Institute (30 hours).

Teaching for the IFTS Project "Telematica e multimedialità a servizio delle imprese" (2005)

Teaching assignment for IFTS Project "Telematics and multimedia at the service of enterprises" at I.T.C. "O. G. Costa" in Lecce.

Teaching on HTML, CSS, PHP, MySQL, interoperability between systems, introduction to free software (60 hours).

Lecce, 07/05/2025



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