

PERSONAL INFORMATION



Davide Marini

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Date of birth 24/10/1981 | Nationality Italian

WORK EXPERIENCE

01/01/2019–Present

CTS Member of Competence Center Start 4.0

Competence Center Start 4.0, Genova (Italy)

<https://www.start4-0.it>

CTS Member of Competence Center 4.0 and responsible for one of the nine infrastructure nodes (Supercomputer Center of DLTM) of the Cdc.

01/01/2011–Present

Project Manager, IT Solution Architecture, System and Security HPC Administrator

Distretto Ligure delle Tecnologie Marine

Via delle Pianazze, n.74, 19136 La Spezia (Italy)

www.dltm.it

System and Security Administrator for a HPC Cluster and Cloud Computing Platform of DLTM with a coordinating role technical and commercial for the sale of offered computing services. Management and coordination of regional, national or European Projects in ICT. Teaching qualified higher education courses in the field of HPC and Cloud Computing.

He achieve skills on Project management, European funding, Business Development.

Project coordinator and management for financed project as following:

- Italian Regional Project (POR,FESR,FSE)
- EU Project (H2020, Erasmus, Interreg)

Business or sector Technological Cluster in the marine and maritime fields.

01/10/2008–01/12/2010

System and Security Administrator

INGV (Istituto Nazionale di Geofisica e Vulcanologia - <http://www.ingv.it>) - NURC (Nato Undersea Research Centre - <http://www.nurc.nato.int>), La Spezia (Italy)

System and Security Administrator for a **HPC RedHat Cluster**. Developer in **PHP**, **Python**, **Bash script** and **Perl**.

Business or sector International and National Research Centres

01/05/2008–Present

Technical Manager and CEO

NetDigit, La Spezia (Italy)

Software Development (PHP and Python) of WEB services and manager role

Business or sector Information Technologies

- 01/08/2010–30/08/2010 **Research Internship**
 CERN
<https://home.cern>
 Development probe in **Python**, using the messaging system MSG, of a new prototype of the application for aggregating, in **SAM Nagios**, informations about specific experiments tests run outside the Nagios framework (group of CERN-IT-Experiment Support).
Business or sector European Organization for Nuclear Research
- 01/08/2009–30/08/2009 **Research Internship**
 CERN
<http://home.cern>
 Penetration testing for evaluating the security in **Oracle Database 10G** (DM (Database Management) group).
Business or sector European Organization for Nuclear Research
- 01/05/2009–01/07/2009 **Teacher for PERFECT Course for INGV**
 Spedia S.p.A (<http://www.spediaspa.com>) – CISITA (<http://www.cisita.it/>)
 Teaching in **HPC** (High Performance Computing) Architecture, Cluster **Linux RedHat, MPI Library** and **Advanced Parallel Computing optimization**.
Business or sector Higher Technical Education
- 23/09/2005–01/10/2005 **Consultant**
 Equator One - DMX Technologies, Hong Kong (China)
 Consultant for **ntop.org** (<http://www.ntop.org>) about **NetFlow, VoIP, RTP** and possible exploration of **H.264** probe based on the rapid packet capturing and analyzing technology.
- 01/06/2004–30/09/2004 **Developer**
 AeP S.r.l., La Spezia (Italy)
 Developed a web application for database management (SQLServer2000) with **Tomcat, Java Servlets, HTML, Javascript** and **JSP**.
Business or sector Marketing
- 01/05/2004–03/06/2004 **Developer**
 Broadsat S.r.l., Pisa (Italy)
<http://www.broadsat.com>
 Developed a C module with Net-SNMP for monitoring of channels on DVB link in Gateway IP-DVB.
Business or sector Information Technology
- 01/06/2003–30/09/2003 **Developer**
 Delta Progetti 2000, La Spezia (Italy)
<http://www.dp2000.it/>
 Developed a **Java** module to send event notifications via e-mail or SMS.
Business or sector Information Technology

EDUCATION AND TRAINING

09/05/2019–15/05/2019

Programming in a Blockchain environment

Install and configuration an Ethereum Blockchain Environment and deploy of Smart Contract.
Programming of Blockchain with Java, Web3j, and Solidity

01/04/2017–15/06/2017

PhD+ University of Pisa, Pisa (Italy)

PHD+: RESEARCH VALORIZATION, INNOVATION AND ENTREPRENEURIAL MINDSE

PhD+ is a unique programme aimed at fostering innovation and entrepreneurial mind-set in students and graduates of the University of Pisa, PhD students and PhDs of all Superior Graduate Schools in Tuscany, and academics. PhD+ consists of a series of interactive and engaging lectures combined with coaching and mentoring activities, given by top-level experts in innovation and technology transfer.

PhD+ is one of the best practice of training in research valorisation, innovation and entrepreneurship, also recognized by the Network of Design for Resilient Entrepreneurship, within the **ENDuRE** European project. To date, PhD+ has received many national and international awards, also thanks to the successes of its multi-awarded spin-offs.

07/2008–08/2008

Course of System Administrator and User for HPC Cluster

SPEDIA, La Spezia (Italy)

2007–2008

MSc in Computer Science Technology

EQF level 7

Department of IT, University of Pisa

www.unipi.it

Network management, Internet Application, Network Mobile, Data Warehouse, Advanced Programming, Lab. of Applications (experiences of groups(70-80 students) in the development of a big software project), Parallele Architecture, Language and Calculability.

Final Thesis: Qualitative analysis of WIFI connection and monitoring mobile devices movements. (Tutors: Professors Deri and Bonuccelli).

30/08/2004–15/01/2005

Erasmus student exchange period

Uppsala University, Department of Information Technology, Uppsala (Sweden)

<https://www.uu.se>

- Real Tyme Systems (7.5 ECTS)
- Computer Graphics (7.5 ECTS)
- Interactive Computer Graphics (7.5 ECTS)

2001–2002

First-Level Bsc degree (3-year program)

EQF level 6

Department of IT, University of Pisa., Pisa (Italy)

www.unipi.it

Mathematics, High Performance Computing and Programming, Programming Theory, Statistics, Computer Architecture, Algorithms and Data Structures, Operating Systems, Database design, Simulation and systems analysis, Software Engineering, Computer Networks, Computer Networks (Java Programming), Programming of parallel computers, Laboratory of Java, Laboratory of C, Laboratory of Database.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	A2	A2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Excellent relational skills acquired at the frequency already in tender age of sports teams and social groups, then in-depth with the participation in study groups at the university level and more improved with my work in DLTM Cluster as Account Manager and for a IT Projects.

Organisational / managerial skills Excellent organisational skills acquired in group work for National and European projects.

Digital skills	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Os: Gnu/Linux, Microsoft Windows, Mac OSX

Office Tools: OpenOffice, StarOffice, Microsoft Office 2016

Text Editor: Vi, Emacs, Lynx

Program Language: Java (Multithreading, Java Networking, JSP, Servlet, JDBC, Java Bean, Ajax), C, C#, PYTHON, PL/SQL, PHP, HTML, JavaScript, XML, CGI, CSS, SNMP, ASN.1, ADA, LegOs

Development Tools: JBuilder, Eclipse, .net2005

DB: Oracle10g, PostgreSQL, MySQL, SqlServer2000

Tools: Apache, Tomcat, NTOP, TCPdump, Ethereal, Samba, RedHat Cluster Suite, Several web application under Gnu/Linux (Ethereal, TcpDump, WireShark, Kismet, etc.), FpsCalc, Times, openLDAP, Ganglia, Nagios, Google Analytics

Networking: Wired, Wifi, Mobile, NetFlow, VoIP, RTP

Cluster: Linux RedHat, CentOS, LSF and PBS PRO Scheduler, OpenMPI, Bright Cluster Manager

Windows: Experiences in configuring and managing of: System Center 2012, Azure Pack, Active Directory, Windows Server 2012 and 2016

Ability to design and manage complex architecture HPC e Cloud both for Hardware and Software

Driving licence A, B

ADDITIONAL INFORMATION

- Projects**
- **Smart BOL - Start 4.0 Projects;** Design and Implementation of BlockChain Architecture for the "Smart Bill Of Landing
 - **EUMarineRobots-H2020Projects;** promote of HPC resource platform for a Marine Robots activities
 - **MedNewJob – IT FR Maritime Projects;** design a web platform to promote active labor polices
 - **Polo DLTM - Regional Project;** Design and Implementation of the HPC & Cloud Architecture

and building business services (SaaS and IaaS)

- **SE.RE.NA. 2.0 - IT FR Maritime Projects**, design and management of multimedia classroom
- **Vento Porti e Mare - IT FR Maritime Projects (wind prediction for the management and security of port areas)**; designed and implemented a portal WEB for weather visualization and wave heights
- **Innautic - IT FR Maritime Projects**; Design and Management of a WEB portal for sharing, in SaaS, the computing center's simulations software