

PERSONAL INFORMATION

Damiano Barboni



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Sex Male | Date of birth 20/06/1980 | Nationality Italy

WORK EXPERIENCE

2008 – Now

Employed at the Meteorological and Environmental Earth Observation S.r.l.

Senior Software Engineer / Software Developer

Projects:

- LTPy, CLASS, TrainHub EUMETSAT
- MUNDI - Atos
- CUBEO – Egeos
- Geo-Damp - Satcen
- SAFERPLACES (Climate-KIC)
- COP_043 WEkEO (COPERNICUS)
- ESA-Philab AI4EO, ESA PDGS Datacube, SPA-ALCS, ASIM , DSI, ADDF, MaaS – European Space Agency (ESA)
- SENSORER (Emilia-Romagna region – Italy)
- EarthServer (FP7), EarthServer2 (H2020), NEANIAS (EOSC H2020), RELAINCE (EOSC H2020)
- URBMObI (Climate-KIC)

Business or sector IT, remote sensing application development

1998 – 2008

During University, different seasonal jobs.

EDUCATION AND TRAINING

2005-2009

Master’s degree in Computer Science Engineering

University of Ferrara. Italy

- Software Engineering;
- Operating System;
- Software design, prototyping and engineering.

1999 - 2005

Bachelor’s degree in Computer Science and Automation Engineering

University of Ferrara. Italy

1994-1999

Diploma on electronics and telecommunication

ITIS F.Viola, high school of Adria (Rovigo). Italy.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

Replace with language

B1	B1	B1	B1	B1
English				

Job-related skills

At work I mainly deal with web application, API, pipelines and automatic processing tools development, database administration and raster data management (processing and storage). I have gained an excellent knowledge of the object oriented language Python and its framework Django, the JavaScript framework jQuery, the map libraries OpenLayers and WebWorldWind, the raster geospatial library GDAL. I dealt with relational (PostgreSQL, Oracle) and non-relational (MongoDB) databases the issues related to the performance tuning and data availability (stream replication, data redundancy, automatic backups, data partitioning). I worked on projects that aimed to manage large amount of raster data using innovative non-relational databases or raster databases (rasdaman) and to provide standard access capabilities based on OGC services (WCS2, WMS, WPS, OpenSearch). On the web application aspects, in addition to software development, I worked on server configuration and user management with different authentication and authorization systems such as ESA SSO (Shibboleth), SAML, OAuth2, OpenidConnect. In each company project I'm involved in, I contributed also to the technical ECSS document production (Technical Specification, Design Justification, etc.).

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Proficient User	Proficient User	Proficient User

Master's degree in Computer Science Engineering

- **Operating Systems and virtualization:** Linux server and workstation (Debian/Ubuntu and Red Hat distributions), VMware ESXi virtualization, AWS, OpenNebula, OpenStack, Kubernetes, Dockers
- **Programming languages:** Python, C, JavaScript (jQuery), HTML, CSS, PHP, Bash, C++, Java, Ruby on Rails.
- **Databases:** PostgreSQL, MongoDB, Oracle, Rasdaman.
- **Applications:** Apache, Django, Django-cms, MapServer, GDAL, OpenLayers, WebWorldWind, gMap, Nagios, Jenkins, Git/Gitlab, SVN.

ADDITIONAL INFORMATION

Master's Degree thesis

Title: Customized Graphic User Interface For Large Database Data Mining Purpose.
Tutor: Dr. Fabrizio Riguzzi, University of Ferrara (March 2009)

Bachelor's Degree thesis

Title: Creation of a remote data acquisition card over TCP / IP protocol with the use of XML for standard data transfer. (*)
Tutor: Dr. Marcello Bonfè, University of Ferrara (Dec. 2005)

(*) Italian Language