

PERSONAL INFORMATION

Olga Caruso



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Sex Female | Date of birth 08/06/1984 | Nationality Italian

WORK EXPERIENCE SUMMARY

Civil Engineer

Specialist in Hydraulic Engineering

Expert in the implementation of the INSPIRE (infrastructure for spatial information in Europe) European Directive

Expert in designing and developing Spatial Data Infrastructures

WORK EXPERIENCE

2013 – On-going SDI & INSPIRE Expert

Epsilon Italia, Italy (www.epsilon-italia.it)

Geomatics, Research & Development for Environment

Most relevant projects and customers:

1. SINFI (National Federated Information System of the Infrastructures)

Dates:	April 2016 – on-going
Business domain:	Environment, Geomatics
Roles and responsibilities:	Technical responsible for the SINFI harmonization and validation of datasets on infrastructures
Technologies:	Matching tables, HALE studio, QGIS

2. MITA - Malta Information Technology Agency, Gattard House, National Road, Blata I-Bajda HMR 9010 Malta

Dates:	April 2016 – on-going
Business domain:	Environment, Geomatics
Roles and responsibilities:	Support to the INSPIRE harmonization, validation and publication of datasets belonging to INSPIRE Annex I, II and III.
Technologies:	Matching tables, Enterprise Architect, Oxygen XML Editor, HALE studio, deegree, GeoServer, eENVplus Validation Service
Methodologies / standards:	INSPIRE data harmonization / INSPIRE Implementing Rules and Technical Guidelines, ISO191xx standards, OGC standards

3. "GeoSmartCity - Open geo-data for innovative services and user applications towards Smart Cities" (www.geosmartcity.eu)

European project, co-funded by DG CONNECT of the EC within the ICT-PSP (Policy Support Programme).

The project contributes to the Smart City implementation focusing on two different scenarios: Green-Energy scenario (aiming to support the implementation of energy efficiency policies lifecycle, with focus on energy performance of buildings) and Underground scenario (aiming to support integrated management of underground utility infrastructures). INSPIRE Directive is taken into consideration for the design of common (trans-national) data models. The GSC cross-platform open hub publishes geographic information and provides specialized services based on open standards.

Dates:	May 2016 – February 2017
Business domain:	Environment, Geomatics
Roles and responsibilities:	Harmonization of dataset related to utility net in the contest of an Italian pilot for implementation of SINFI (Federated Na Information System of Infrastructure)
Technologies:	Matching tables, Enterprise Architect, Oxygen XML Editor, HALE studio, degree, GeoServer, eENVplus Validation Service, GeoUMLtool, PostGIS, SQL
Methodologies / standards:	INSPIRE data harmonization / INSPIRE Implementing Rules and Technical Guidelines, ISO191xx standards, OGC standards

4. Project: “i-locate - Indoor/outdoor location and asset management through open geodata”, (www.i-locate.eu) cofunded by DG CONNECT of the European Commission within the ICT-PSP (Policy Support Programme), coordinated by Trilogis

The project creates a virtual hub for indoor open geographical data regarding public spaces (hospitals, public offices, shopping malls, museums etc) and an easy-to-integrate open middleware for indoor/outdoor tracking and management. The technology is validated in 14 pilot locations across Europe focusing on e-Health scenarios and other public services.

Dates:	June 2014 – December 2016
Roles and responsibilities:	Exploitation of the whole project results toward the private sector and SMEs in particular and for the establishment of liaisons with similar projects/initiatives.

5. Italian Ministry of Infrastructures and Transports, Rome (Italy)

The Geographic Information System of the dams and associated flood risk of the Adige and Tevere river basins.

Dates:	March 2015 – December 2015
Business domain:	Environment, Geomatics
Roles and responsibilities:	Georeferencing of maps and realization of the information layers of GIS.
Technologies:	QGIS, python
Methodologies / standards:	Data modelling, digitization and georeferencing of paper maps, customization of QGIS forms for the editing of the attributes of the geometries.

6. Project “ArcFUEL - Mediterranean Fuel Maps Geodatabase for Wildland & Forest Fire Safety”, cofunded by the LIFE+ 2010 Programme of the European Commission, coordinated by Epsilon International SA (GR) (www.arcfuel.eu).

European project, co-funded by the LIFE+ 2010 Programme with the aim of producing updated fuel cover maps based on satellite data and field validation to fulfil the needs of local, regional ornational users in forest fire management operations

Dates:	December 2013
Business domain:	Environment, Geomatics
Roles and responsibilities:	Data Validation
Technologies:	QGIS
Methodologies / standards:	Field validation.

March 2018–January 2019 Consultancy work in the fields of Civil Engineer

HYpro, Italy (<http://www.hypro.it/>)

Most relevant projects and customers:

1. Executive project on “Metropolitan connection system Cosenza – Rende – University of Calabria”

Dates:	March 2018 – December 2018
Business domain:	Civil Engineering
Roles and responsibilities:	Technical responsible for the interferences with the sub-services infrastructure.

2. Consultancy work in the fields of Hydraulic engineering

Dates:	March 2018 – January 2018
Business domain:	Civil Engineering
Roles and responsibilities:	Technical responsible for the following fields: Hydrology, Hydraulics, Watersheds, Water Networks, Drainage Systems

May 2016 - August 2016 Post-graduate research

DEPARTMENT OF CIVIL ENGINEERING, Università della Calabria, via Pietro Bucci, 87036 Rende (CS), Italy

- “Analysis of water demand for indoor utilization and irrigation”
Research project "Drinking Water"

Business or sector University

EDUCATION AND TRAINING

January 2014– June 2017 PhD student on Civil and Industrial Engineering XXIX cycle

UNIVERSITÀ DELLA CALABRIA, via Pietro Bucci, 87036 Rende (CS), Italy
Management of water distribution networks (WDNs) during emergency conditions

January 2013–January 2014 **Postgraduate Specialisation**

UNIVERSITÀ DELLA CALABRIA, via Pietro Bucci, 87036 Rende (CS) (Italy)

Master "Expert on integrated and sustainable management of water-energy cycle in urban drainage systems"

September 2013–September 2013 **Stage for Master "Expert on integrated and sustainable management of water-energy cycle in urban drainage systems"**

EPSILON ITALIA SRL, 79 Via Pasquali, 87040 Mendicino (CS), Italy

<http://www.epsilon-italia.it/>

- Software QGis;
- Preprocessing of datasets
- Spatial data analysis
- Spatial data analysis of a green roof

September 2012 **Master Degree**

UNIVERSITÀ DELLA CALABRIA, via Pietro Bucci, 87036 Rende (CS), Italy

Aqueducts and Sewers, Water Resources Management, Hydraulic Engineering, Hydrology, Marine Construction, Protection of the Coasts, Transport systems, Structural Engineering.

Thesis on "Determinazione del trasporto solido fluviale mediante misure di campo. Il caso del fiume Savuto"

July 2009 **Bachelor Degree**

UNIVERSITÀ DELLA CALABRIA, via Pietro Bucci, 87036 Rende (CS), Italy

Structural Engineering, Hydraulics, Hydraulic Structures, Geotechnical, Transport

December 2004 **European Trinity Certification B2**

TRINITY COLLEGE, LONDON (United Kingdom)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
European Trinity Certification					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user / Common European Framework of Reference for Languages

Common European Framework of Reference for Languages

Organisational / managerial skills Ability to work in interdisciplinary and international technical teams

Job-related skills Technical skills and competences with the use of Personal Computers: Internet, Office Automation, Autocad, Autocad LT, Civil 3D, Archicad, QGis, Epanet, Matlab, Hec-Ras, HEC-HMS Watercad, Epa-SWMM, Primus, Spatial Data and Metadata Transformation and

Validation tools (HALE, Snowflake Software – Go Publisher, Go Loader, Oxygen, XML Spy), UML (Enterprise Architect).

ADDITIONAL INFORMATION

Publications

- Martirano G., Vinci F., Morrone S., Caruso O., *Il Sistema Informativo Nazionale Federato delle Infrastrutture (SINFI): non solo un obbligo di legge ma anche una opportunità per le geosmartcity*, GIS Day Calabria 2016 – VII edizione, Novembre 2016.
- Fiorini Morosini A., Caruso O., Veltri P. e Costanzo F., *Management of water distribution systems in emergency conditions with a nodal demand control by a calibration approach*, 2nd EWaS International Conference.
- Fiorini Morosini A., Caruso O., Veltri P. e Costanzo F., *Water Distribution Network Management in Emergency Conditions*, 13th Computer Control for Water Industry Conference, CCWI 2015, Settembre 2015.
- Fiorini Morosini A., Caruso O., Costanzo F. e Veltri P., *La gestione delle reti idriche in condizioni di emergenza attraverso il controllo delle portate erogate ai nodi. Un approccio attraverso le tecniche di calibrazione*, Sesto Seminario Nazionale su "Efficienza e risparmio energetico dei sistemi idrici", Luglio 2015.
- Costanzo F., Fiorini Morosini A. e Caruso O., *Gestione e efficientamento delle reti idriche mediante il recupero energetico diffuso*, Sesto Seminario Nazionale su "Efficienza e risparmio energetico dei sistemi idrici", Luglio 2015.
- Caruso O., *Utilizzo di GIS per la gestione di basi dati relative ai tetti verdi provenienti dai siti sperimentali di progetto*, Relazioni attività di tirocinio del Master Universitario di II livello PON01_02543/F2 – Esperto di gestione integrata e sostenibile del ciclo acqua-energia nei sistemi di drenaggio urbano.

Date 18/01/2018

Sign

