



Federico Fausto Santoro

Research Professor, Solution Architect

Via Lenin 255, 95045, Catania, Italy fedyfausto@hotmail.com
+393462461028

Profile

I have over 12 years of experience working in the Computer Science field. Currently, I work as Enel's Senior Research and Developer, improving productivity and services by using advanced Internet of Things technologies and Machine Learning techniques, coordinating research work and aims.

In addition, I teach some courses at the University of Catania, regarding the Internet Of Things, Web Development and Wireless Networks courses.

Finally, I use my experience to improve other companies' projects and products regarding the Internet of Things and Web technologies.

Competencies: internet of things, cloud computing, web development, network protocols, machine learning, embedded device, micro-controllers, databases, high-level languages, low-level languages,

Employment History

Jan 2022

Research Professor at University of Catania

Catania

The course is mainly aimed at students of the faculty of Computer Science but free choice as regards the other courses of the University. The course deals with the most modern issues concerning Web Development and the study of Usability. The course, divided into three parts, will cover Front-End development, study and management of usability and back-end development.

Jul 2021

Lead Solutions Architect at Enel X

Catania

My responsibilities during the work period at Enel X were project management, team leading and development as supervisor of an international project for the development of a Simulation Environment for the improvements of renewable energy distribution.

Jul 2021 — Jul 2022

Postdoctoral Research Fellow at University of Catania

Catania

As a postdoctoral Research Fellow, my research raises on the design and development of multi-agent simulators environments.

Oct 2017 — Feb 2021

IoT Solutions Architect at Enel Green Power

Catania

As IoT Solutions Architect at EGP, my responsibility was the design and development of Internet of Things solutions, from

Details

Date / Place of birth

10/01/1989
Catania

Nationality

Italian

Driving licence

B

Skills

Initiative and
Problem-solving
Abilities

Research and
Development

Internet of Things

Cloud Computing

Web Development

Algorithms

Machine Learning

Project Managements

Hobbies

Technologies, Teaching,
Games, Innovation

Languages

Italian



English



the research of new LoWPAN wireless protocols for the IoT to the design of new smart devices with their embedded artificial intelligence.

Dec 2018

Cloud Architect and IoT R&D Lead at Xacria

Catania

Design and development of new Hybrid Cloud solutions with Redhat technologies. Design and development of sensors devices within LoRa/LoRaWAN networks.

Feb 2020 — Jan 2021

Cross-Platform Game Developer at Mash&Co

Catania

Porting of several games to all platforms with Web technologies.

May 2018 — Jan 2020

Fullstack Developer Senior at BacktoWork

Milan

Jul 2013

Fullstack Developer Senior & Web Software Engineer at Spidwit

Catania

Development of a web client for real-time management of its own press releases via web technologies. Development of a Cloud system for searching and parsing news on the web about certain topics.

Mar 2017 — May 2018

Product Manager at Parksmart

Catania

May 2015 — Sep 2015

Research and development at I.N.F.N.

Catania

Research and development related to new Cloud open-source technologies such as RedHat Open-Stack. Development of software to automate the process of instancing a complex infrastructure for Open-Stack in HA through Puppet called PuppetStack.

Education

Oct 2017 — Feb 2021

University of Catania

Catania

International Ph.D.

- Grade: International PhD
- Activities and societies: Enel Green Power Research and Development about the Internet of Things Technologies.
- My PhD course was aimed at creating new IoT solutions for the industrial environment and the application of Machine Learning techniques to IoT.

Dec 2021

University of Catania, Order of Engeneers

Catania Master Information Engeneer

Jan 2016 — Sep 2016

University of Catania

Catania

Master Bachelor

- Grade: 110 cum Lode
- Activities and societies: Computer Science Security, Microcontrollers, Algorithms, wireless networks, parallel programming.
- Study of technologies related to Wireless and P2P networks, Data Mining, microcontroller programming, security in computer networks, algorithms and advanced data structures.

Oct 2014 — Dec 2015

University of Catania

Catania

Master

- Grade: 110 cum Lode
- Study of technologies related to open source solutions for cloud computing.

Sep 2008 — Sep 2014

University of Catania

Catania

Bachelor

Computer Sciences Bachelor.

Certifications

Mar 2021

LoRaWAN Advanced at The Things Networks

Mar 2021

LoRaWAN Fundamentals at The Things Networks

Sep 2015

Amazon AWS Platform Administrator at Amazon Web Services

Sep 2015

Red Hat Certified System Administrator in Red Hat OpenStack at Red Hat (ID : 150-167-245)

Aug 2015

IBM BlueMix IaaS, PaaS Administrator at IBM

Pubblications

An integrated framework for the realistic simulation of multi-UAV applications.

International Journal of Computers & Electrical Engineering, Volume 74, March 2019, Pages 196-209.

Wale: A solution to share libraries in Docker containers.

International Journal of Future Generation Computer Systems, Volume 100, November 2019, Pages 513-522.

The Tactile Internet for the flight control of UAV flocks.

In the 4th Conference on Network Softwarization and Workshops (NetSoft), on pages 470-475, IEEE, 2018.

Integrating Heterogeneous Tools for Physical Simulation of multi-Unmanned Aerial Vehicles.

In the 19th Workshop From Objects to Agents (WOA), on pages 10-15, 2018.

Wale: a Dockerfile-based approach to deduplicate shared libraries in Docker containers.

In the 16th Intl Conf on Dependable, Autonomic and Secure Computing, 16th Intl Conf on Pervasive Intelligence and Computing, 4th Intl Conf on Big Data Intelligence and Computing and Cyber Science and Technology Congress (DASC/PiCom/DataCom/CyberSciTech), on pages 785-791, IEEE, 2018.

Meaning Extraction in a Domotic Assistant Agent Interacting by means of Natural Language.

In the 28th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), on pages 21-26, IEEE, 2019.

Design of Self-organizing Protocol for LoWPAN Networks.

In the 12th International Conference on Internet and Distributed Computing Systems (IDCS), on pages 424-433, Springer, 2019.

Privacy Preserving on Delay Tolerant Networks.

In the 5th International Conference on Innovative Computing and Communication (ICICC 2022), Springer 2022.

A web interface to query and select data from ArrayExpress

In the 9th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics, Lecture Notes in Computer Science (CIBB 2016, LNCS, volume 10834), Springer 2017.

References

Signonella, NAS Housing

Maria Russo

+393477466046

Signonella

Stephen Woods

+393474066960

Xacria

Filippo Randazzo

filippo.rnd@gmail.com

Xacria

Daniela Ramo

danystella88@hotmail.it

University of Catania

Salvatore Riccobene

sriccobene@unict.it

University of Catania

Corrado Santoro

santoro@dmi.unict.it

BacktoWork

Federico Fallico

+39 3483393325

BacktoWork

Dario Lo Giudice

+39 3481485822

Enel X

Massimiliano De Benedetti

massimilianomaurizio.debenedetti@enel.com

Enel Green Power

Dario Iuvara

dario.iuvara@enel.com