



Alessandro Galasso

WORK EXPERIENCE

1 NOV 2022 – CURRENT Rome, Italy

PH.D. STUDENT SAPIENZA UNIVERSITY OF ROME

JAN 2023 – CURRENT Rome, Italy

TECHNICAL CONSULTANT D.R.E.A.M. S.R.L.

OCT 2019 – NOV 2019 Martina Franca, Italy

ENERGY ENGINEER CAROLI ELETTRONICA

- Energy feasibility study
- PV systems design
- Technical - economic inspection
- Inverter testing
- Exchange/production electric meter testing
- Landscape constraints
- PV incentives

OCT 2015 – NOV 2015 Dublin, Ireland

SOFTWARE TESTER IRISH PROGRESSIVE SERVICE INTERNATIONAL

- Software updates testing
- Archive management
- Insurance request management

MAY 2013 – JUL 2013 Martina Franca, Italy

WEB DEVELOPER COGNITA S.R.L.

- Web-design
- PHP, HTML, CSS and MySQL
- Photo Editing

EDUCATION AND TRAINING

JAN 2024 Rome, Italy

KNX BASIC KNX Association

Design, commissioning, diagnosis smart home and building solutions based on KNX.

FEB 2023 Stezzano, Italy

ECOSTRUXURE POWER MONITORING EXPERT Schneider Electric

JAN 2023 – MAY 2023 Casavatore, Italy

ACADEMY STUDI TECNICI Schneider Electric

JAN 2023 Casavatore, Italy

DIGITAL ACADEMY Schneider Electric

OCT 2022 Rome, Italy

MASTER'S DEGREE IN ENERGY ENGINEERING Sapienza - University of Rome

OCT 2020 – FEB 2021 Warsaw, Poland

ERASMUS+ STUDENT Politechnika Warszawska

JAN 2020 Rome, Italy

IELTS CERTIFICATION 5.5 British Council

DEC 2019 Bologna, Italy

BACHELOR'S DEGREE IN ENERGY ENGINEERING Alma Mater Studiorum Università di Bologna

APR 2016 – MAY 2016 Martina Franca, Italy

TIM - NETWORK SCUOLA IMPRESA IISS Ettore Majorana

FEB 2016 Martina Franca, Italy

ECDL IISS Ettore Majorana

MAY 2015 Martina Franca, Italy

CISCO IT ESSENTIALS IISS Ettore Majorana

JUN 2014 Martina Franca, Italy

TRINITY CERTIFICATION GRADE 6 Trinity

2013 Martina Franca, Italy

ROBOTICS COURSE IISS Ettore Majorana

● **PROJECTS**

SEP 2023 – CURRENT

Digital Twin for experimental microgrid

Development of a smart platform able to manage the experimental microgrid S.A.P.I.E.N.T.E. of research center "ENEA Casaccia" using the "Digital Twin" technology to implement demand side management and demand response strategies.

FEB 2023 – JAN 2024

Technical consultant for BACS development of hotel's HVAC system

Development of a Building Automation System able to manage the hotel HVAC system and rooms HVAC of "Rome Cavalieri, a Waldorf Astoria Hotel", including technical inspections, project development and implementation of technical documents.

APR 2023 – OCT 2023

Feasibility study of an industrial smart city

Feasibility study of an industrial smart city located in Saudi Arabia with the collaboration of "Technip Energies". In particular, an analysis between hybrid and battery trains has been made, based on train performance simulations on the railway line, with the goal to evaluate overall energy consumption considering timetable for recharging locomotives, key factors, benchmark and battery life cycle assessment.

JAN 2023 – JUL 2023

Technical consultant for research center ENEA Casaccia

Technical advice and feasibility study for the implementation of automation logics able to manage energy and power flows inside the experimental microgrid S.A.P.I.E.N.T.E. of research center "ENEA Casaccia".

SCADA development for Sapienza - DIAEE department

Design and development of a SCADA open-source platform for LAMBDA laboratory of DIAEE department. The goal is to monitor and manage energy of the pre-existing microgrid. Custom dashboards have been developed and differentiated according to user's privileges. Also secure communication protocols and creation of users with different privileges have been finalized.

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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

DRIVING LICENCE

Driving Licence: B

DIGITAL SKILLS

Microsoft Office | C/C++ for Microcontrollers | Java language | Python language | JavaScript language | VBA language | PHP language | HTML 5: HTML/CSS/JQuery | Wordpress | Web design | IoT device development | Systems and networks engineering

CONFERENCES AND SEMINARS

21 MAY 2024 – 24 MAY 2024 Las Vegas

IEEE I&CPS 2024

Paper author.

NOV 2023 Nashville

IEEE IAS Annual Meeting

Paper author.

5 OCT 2023 Rome

AEIT International Annual Conference

Organization member and technical contact.

6 JUN 2023 – 9 JUN 2023 Madrid

IEEE IEEEIC 2023

Organizaion member and technical contact.

PUBLICATIONS

2023

[**Power Electronic Converters Enabling the Power Sharing Solution in LVDC Smart Grids for the new Energy Communities**](#)

2023

[**Fault Analysis in a Residential DC Microgrid**](#)

2023

Physical and Virtual Energy Community: A Comparison with a Load-Demand Profiles Generator Tool (PGT)

2023

E-Parking project design: grid and photovoltaic integration for electric vehicles charging systems

2023

Smart Digital Current Simulator (SDCS) for BESS Power Management

2023

Capacitive Behavior of Electrical Power Systems with Distributed Nonlinear Loads

2023

Electrical Load Profiles for Residential Buildings: Enhanced Bottom-Up Model (EBM)
