



WORK EXPERIENCE

01/01/2024 – CURRENT Rome, Italy

POSTDOCTORAL RESEARCHER SAPIENZA UNIVERSITY OF ROME

- Developing digital twins of renewable power systems
- Analysis of Renewable Energy Communities (RECs)
- Forecast of electricity and heat consumption
- Using optimization algorithms for Design

01/11/2018 – 30/10/2020 Bologna, Italy

PRODUCT ENGINEER AND FEM ANALYST ITALTRACTOR ITM SPA

My main activities: product and process design, conventional mechanical calculations, FEM Analysis, development and discussion reports, 3D modeling, prototyping and testing, customer and supplier relationship.

EDUCATION AND TRAINING

01/11/2020 – 31/10/2023

PHD STUDENT IN ENERGY AND ENVIRONMENT Sapienza University of Rome

My main activities are: modeling of energy production technologies as wind turbine, PV panels, wave energy converter, modeling of storage systems and profiling of energy demand through simulation software such as Trnsys and computational codes developed in Python. Development of new modeling tools for supporting systems analysis and design.

My main field of interest is renewable energy communities (REC). The aim of my PhD is to develop an open-source tool Py-RES for optimal designing and management of REC in Python.

Level in EQF EQF level 8

12/11/2015 – 18/05/2018

MASTER'S DEGREE IN MECHANICAL ENGINEERING Sapienza University of Rome

Final grade 110/110 cum laude | **Level in EQF** EQF level 7 |

Thesis Evaluation of the Torsional Stiffness of the carbon fiber chassis of a Formula SAE car

01/10/2012 – 12/11/2015

BACHELOR'S DEGREE IN MECHANICAL ENGINEERING Sapienza University of Rome

Final grade 106 | **Level in EQF** EQF level 6 | **Thesis** Glauert's theory on thin airfoil

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B1	B1	B2

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

DIGITAL SKILLS

TRNSYS (advanced level) - macro scale simulation | Python | CREO 3D | ANSYS MECHANICAL