Curriculum Vitae Federico Silenzi

PERSONAL INFORMATION Federico Silenzi

DESIRED OCCUPATION

Energy Efficiency, Renewables

PROFESSIONAL EXPERIENCE June 2022 - Today

Istituto Nazionale Fisica Nucleare - INFN sez. Genova

Via Dodecanneso 33. Genova

 Data analysis for the Inner Traker (ITk) cooling system of the ATLAS experiment at CERN (Matlab)

Cooling Field

May 2021 - April 2022

University of Genova - DIME

Via all'Opera Pia 15a, Genova

• Research activity in innovative greenhouse heating systems using microwaves – Project "Mezzi Fisici".

Study and development of a basal heating system using waste heat from a CHP generator. The system is part of a working demonstrator equipped with a microwave emitter to heat plants and to sterilize the cultivation soil. (MS Word, MS Excel, Sketchup, Openstudio, EnergyPlus)

Energy Field

April 2022 – June 2023

University of Genova - Scuola politecnica di Ingegneria e Architettura

Via all'Opera Pia 15a, Genova

Tutoring course in "Applied Physics" for the bachelor course in Civil Engineering held by Prof. Corrado Schenone

Didactic Activity

September 2021 - April 2022

University of Genova - Scuola politecnica di Ingegneria e Architettura

Via all'Opera Pia 15a, Genova

Tutoring course in "Applied Physics" for the bachelor course in Civil Engineering held by Prof. Corrado Schenone

Didactic Activity

March 2020 - February 2021

University di Genoa - DIME

Via all'Opera Pia 15a, Genova

Research activity in innovative LNG applications – European Project SIGNAL.

Drafting of technical reports, development of dynamic models of energy recover system to exploit regasification exergy in port areas (MS Word, MS Excel, Honeywell Unisim)

Energy Field

November 2016 – December 2018

Process Engineer C/O Demont s.r.l.

Zona Industriale, Località Braia, Millesimo (Sv)

 Assistant in dimensioning of HVAC (Heating, Ventilation, Air Conditioning) systems for naval applications.

- Study, Enhancement and Normative Update of the calculation algorithms for dimensioning of HVAC systems (MS Excel).
- Draft and Check of Technical Documents for Customers and Suppliers (MS Word, MS Excel, AutoCAD).

Energy Field

November 2016 – November 2019

PhD C/O Department of Mechanical, Energy, Management and Transportation Engineering (DIME - TEC)

Via all'Opera Pia 15a, Genova

- Study of mathematical and numerical models for geothermic energy systems (Matlab).
- Dynamic energetic simulation of buildings (Sketch-up, Openstudio, Energy Plus).
 Energy Field

January 2016 - July 2016

Apprenticeship for Master Thesis Project

Toshiba T&D Europe, via De Marinis 1, 9° piano, Genova Sampierdarena

- Dynamic energetic simulation of buildings in the framework of the European Project
 A2PBEER (Affordable and Adaptable Public Building through Energy Efficient Retrofitting), Case
 Study: San Martino Hospital Monoblocco Pavilion (Sketch-up, Openstudio, Energy Plus)
- Collaborator for Rina Consulting (formerly D'Appolonia S.p.A.) for gathering, elaboration and organisation of data requested for the final report of the A2PBEER project. (MS Word, MS Excel)

Energy Field

September 2012-December 2012

Formative Apprenticeship

C/O B.S. Franco Martini - Serra Riccò - Genova

Hydrocarbons polluted Soil Cleaning with bio-physical and mechanical techniques.

Environmental Field

EDUCATION AND TRAINING November 2016 – March 2020

Doctor Of Philosophy in Mechanical, Energy and Management Engineering - Technical Physics Curriculum

EQF 8

Via all'Opera Pia 15a, Genova

Thesis: "Thermal and dynamic analysis of a nearly zero-energy building equipped with geothermal and solar energy systems"

The PhD studies were focused on dynamic energy modelling of high efficiency building (NZEB and hitec greenhouses) and the validation of a semi-numerical method to simulate the thermal response of ground when unconventional shaped ground heat exchangers are considered. The experimental laboratory activity was based on the development and test of a prototype mobile bench for assessing thermal solar panels efficiency (compliant with Iso 9806-1 and EN 12975-2:2006 standards).

March 2021

Qualification to practice as Graduate Agrotechnician (100/100)

Collegio Nazionale degli Agrotecnici e degli Agrotecnici Laureati

Professional qualification valid in Italy and in Europe (Directive 2005/36/CE)

September 2013 - July 2016

Master's degree in Environmental and Energy Engineering with honors (110/110)

Università degli Studi di Genova - Campus di Savona - Via A. Magliotto 2, 17100, Savona

The focus of the studies regarded Thermodynamics, Chemistry (Combustion), Flu dynamics, Power Plants and Renewable Energies, Mass Transfer phenomena, Natural Risk Management.

September 2006- July 2013

Degree in Environmental Engineering (105/110)

EQF 6

EQF 7

Scuola politecnica di Ingegneria e Architettura, via Montallegro 1, 16154, Genova

The studies focused on Hydraulics and Hydraulic Structures, Waterworks and Sewage system dimensioning, Applied Thermodynamics, and elements of Chemistry, Physics, IT, Electrical

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Engineering.

September 2001-June 2006

High School Diploma

Science High School L. Lanfranconi, via ai Cantieri 7, 16158, Genova

PERSONAL SKILLS

Mother Tongue

Italian

Other Languages

COMPREHENSION		SPEECHING	WRITING
Listening	Reading		
C2	C2	B2	C2
Bulats Certification - Cambridge English Language Assessment (obtained July 2015)			

English

Communication Skills

I have a gregarious personality with good communicative skills. During my work I have learnt how to teamwork and how to organize my job in a precise and scheduled activity, to never respect deadlines. I possess also good capacity in problem solving, in both theoretical and practical situations.

IT Skills

Good competence MS Windows and Digital Technologies alike.

MS Word, MS Excel, MS Powerpoint.

Good skills with 2D drawing (AutoCAD) and 3D design (Sketchup).

Good skills with Energy Plus and Openstudio (building dynamic energy simulation tools).

Good skills with Honeywell UNISIM.

In possess of the European Computer Driving License (ECDL).

Matlab and Simulink.

Other Skills

I possess good handcraftsmanship due to my experience as construction worker (2013-2016)

Driving Licence

B & A1 (with own car)

FURTHER INFORMATION

Personal Interests

Crossfit, Martial Arts, Books, TV series, Movies.

Privacy Agreement

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance with art. 7 of the abovementioned decree.

Federio Silenti