



Luca Socci

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About me:

Environmental Engineer, PhD student in Energy and Innovative Industrial and Environmental Technologies at the Thermo Group of University of Florence. During my time as researcher and during my studies, I delved into issues related to desalination, efficient cooling and refrigeration (the subject of my thesis works), energy resource management and renewable energies.

WORK EXPERIENCE

09/2020 – CURRENT – Florence, Italy

RESEARCH FELLOW - PHD STUDENT – THERMO GROUP – DIEF - UNIVERSITY OF FLORENCE

Research projects and collaborations with companies:

- Numerical modeling and optimization of HDH desalination systems.
- Analysis and optimization of HVAC systems, in particular data centre cooling systems
- Study of the sanitation of air flows, in particular the use of UV-C lamps in HVAC systems.
- Laboratory activities, in particular heat exchange tests on materials.

Supervision (co-supervisor) for three-year and master theses in Mechanical, Energy and Building Engineering.

Review of exercises for the courses of Applied Thermodynamics (Management Engineering) and HVAC Systems (Energy and Building Engineering).

03/2020 – 06/2020 – Florence, Italy

INTERNSHIP – APPLIED THERMODYNAMICS LABORATORY – UNIVERSITY OF FLORENCE

Internship combined with the Master's Thesis (data centre cooling design solutions)

10/2019 – 12/2020 – Florence, Italy

TEACHING TUTOR – UNIVERSITY OF FLORENCE

Teaching tutor for the courses of Applied Thermodynamics and Renewable Energies.

05/2017 – 06/2017 – Florence, Italy

INTERNSHIP – LABORATORIO DI FISICA TECNICA – UNIVERSITÀ DEGLI STUDI DI FIRENZE

Internship combined with the Master's Thesis (temperature measurements of an ejector cycle prototype)

EDUCATION AND TRAINING

10/2017 – 07/2020 – Florence, Italy

MASTER'S DEGREE: ENVIRONMENTAL ENGINEERING – University of Florence - School of Engineering

Address Florence, Italy | **Final grade** 110 with honour/ 110 |

Thesis Design and comparison of solutions for efficient cooling of data centre

09/2013 – 10/2017 – Florence, Italy

BACHELOR'S DEGREE: ENVIRONMENTAL ENGINEERING – University of Florence - School of Engineering

Address Florence, Italy | **Final grade** 110 with honour / 110 |

Thesis Calibration of instruments for temperature measurements in an ejector cycle prototype

09/2008 – 07/2013 – Florence, Italy

SCIENTIFIC HIGH SCHOOL – Liceo Scientifico N.Rodolico

Address Florence, Italy | **Final grade** 100 / 100

● 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

● DIGITAL SKILLS

My Digital Skills

Office | Matlab | Design Builder | Edilclima EC700 | AutoCad

● ALTRE INFORMAZIONI

National Examination

Qualification to practice as a Civil and Environmental Engineer, section A (February 2021): National Examination mark 60/60