ABOUT MYSELF

As a Nuclear Engineer with a PhD, I take pride in contributing to the energy transition through my dedicated work in sustainable energy. My passion lies in driving innovation and collaborating within dynamic teams, leveraging both technical expertise, strong interpersonal skills and effective communication to navigate the challenges of today's complex and evolving energy landscape.

• WORK EXPERIENCE

01/05/2024 – CURRENT Genova, Italy **PRODUCT DEVELOPMENT MANAGER** ANSALDO NUCLEARE SPA

• Lead the development of innovative heat and mass transfer components and systems, with a focus on SMR and LFR technologies.

- · Identify and explore new product opportunities.
- Build and maintain strong relationships with key clients and partners to foster long-term collaboration.
- Develop, manage, and technically coordinate comprehensive project plans, including scheduling, setting objectives, budgeting, and resource allocation.
- Design and oversee experimental plans to validate new technical solutions and ensure product viability.
- Guide and mentor young engineers, supporting their professional development and technical expertise in the field of thermal-hydraulics.

• Manage cross-functional teams through the entire product development cycle, from initial concept through to market deployment.

- Ensure the successful commercialization of products by aligning technical solutions with requirements.
- Continuously monitor industry trends and advancements to keep the product portfolio competitive and innovative.

01/02/2021 – 30/09/2024 Genova, Italy PROJECT ENGINEER ANSALDO NUCLEARE SPA

- Development of projects with high technological impact, particularly on Generation IV lead fast reactors
- Delivery of complex experimental facilities and innovative projects
- Technical coordination of the tendering phases
- Definition and periodic review of project requirements with the clients
- · Business development of opportunities for lasting partnerships with key clients
- · Ensuring compliance with project time schedule and budget
- Coordination and harmonization of necessary engineering disciplines
- · Governance of procurement stage to satisfy project requirements

01/02/2021 – 01/09/2024 Genova, Italy SENIOR THERMAL-HYDRAULIC ANALYST ANSALDO NUCLEARE SPA

- Development of projects with high technological impact, particularly on Generation IV lead fast reactors
- Delivery of complex experimental facilities and innovative projects
- Technical coordination of the tendering phases
- Definition and periodic review of project requirements with the clients
- · Business development of opportunities for lasting partnerships with key clients
- Ensuring compliance with project time schedule and budget
- Coordination and harmonization of necessary engineering disciplines
- Governance of procurement stage to satisfy project requirements

- Developed thermal-hydraulic and safety calculations for the MYRRHA project, conducted on-site at SCK-CEN Mol. Employed analytical models, Computational Fluid Dynamics (CFD), and system codes (RELAP5).
- Led the design and conducted sensitivity analyses for various components and systems, including Primary Heat Exchangers, reactor internals, and safety systems.
- Took responsibility for drafting the technical safety documentation submitted to the Safety Authority for the reactor licensing.
- Executed scaling analyses and designed experimental facilities for safety systems in the Lead Fast Reactors, specifically as part of the ALFRED Project.
- Conducted safety analyses for Loss of Coolant Accidents (LOCA) in the DEMO fusion reactor using thermalhydraulic calculations with the RELAP5-3D system code.

• EDUCATION AND TRAINING

15/04/2024 – CURRENT Rome, Italy EXECUTIVE MBA CANDIDATE LUISS Business school

Website https://businessschool.luiss.it/

01/01/2014 – 15/10/2017 Torino, Italy PHD IN ENERGETICS CUM LAUDE Polytechnic of Turin

Website https://www.polito.it/ | Field of study Engineering, manufacturing and construction | Level in EQF EQF level 8 |

Thesis Thermal-hydraulics of passive safety systems for advanced Nuclear Reactors

15/10/2011 – 15/10/2013 Torino, Italy MASTER OF SCIENCE IN ENERGY AND NUCLEAR ENGINEERING Polytechnic of Turin

Website https://www.polito.it/ | Final grade 110 Cum Laude

15/10/2008 – 15/10/2011 Torino, Italy BACHELOR OF SCIENCE IN ENERGY ENGINEERING Polytechnic of Turin

Website https://www.polito.it/

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		
ENGLISH	C1	C2	C1	C2	C1
FRENCH	B1	B2	A2	A2	A2

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

PUBLICATIONS

2023

<u>The Versatile Loop Facility: A New Infrastructure for Testing Components and Systems of Lead Fast</u> <u>Reactor Technology</u>

2023

<u>The Passive Heat Removal Facility: Testing and Demonstrating an Innovative Decay Heat Removal</u> <u>System</u>

2021

<u>The development of the research infrastructure in support of Alfred demonstrator implementation</u> <u>in Romania</u>

2020

ALFRED reactor coolant system design

2017

Thermal hydraulic analysis of a passively controlled DHR system

2014

Helical coil thermal hydraulic model

DRIVING LICENCE

Driving Licence: A Driving Licence: B

HARD AND SOFT SKILLS

Hard and Soft skills

Competences:

Governance of engineering teams through multidisciplinary projects Definition of development plans for new products and technologies Scheduling and execution of technical activities Technical and scientific communication to a specialized audience Conceptualization, design and setup experimental plans and facilities Thermal-hydraulics of single and two-phase flow including transient analysis Safety assessment of nuclear installations through deterministic and probabilistic methods

Technical skills

Excellent use of Unix and Windows operating systems Excellent use of MS office package including Project and Visio Excellent use of thermal-hydraulic system code RELAP5-3D Excellent use of CFD codes: Ansys CFX, Fluent, Workbench suite, STARCCM+ Good use of Autocad, NavisWorks, Solidworks Good Coding experience with Unix, Matlab, Simulink, C++, Fortran96, Python