

# TOMMASO DEL MORO

Date of birth: 25/11/1997

+39 3276129824

[tommaso.delmoro@uniroma1.it](mailto:tommaso.delmoro@uniroma1.it) [tommasondelmoro@gmail.com](mailto:tommasondelmoro@gmail.com)

---

## EXPERIENCES

**16/05/2022 – 20/05/2022**

**PARTICIPANT**, SIET S.P.A. – PIACENZA

Participation to the “Hands on Training on SIRIO experimental facility” in the framework of H2020 PIACE project.

**12/04/2021 – 08/10/2021**

**TRAINEE**, ENEA

Participation to an internship at ENEA R.C. of Brasimone for the Master’s thesis with the title “Thermal-Hydraulic design and RELAP5 code modelling of DEMO Once Through Steam Generators”.

**15/05/2019 – 17/05/2019**

**PARTICIPANT**, NATIONAL ACADEMY OF ENGINEERING

Participation to GCSP (“Grand Challenges Scholars Program”) Workshop at the “Politehnica” University of Bucharest (Romania). Winner of the GCSP award from the National Academy of Engineering for having addressed one of the 14 *Sustainable Development Goals* (“Affordable and Clean Energy”) and for having demonstrated the acquisition of the 5 competencies required from the GCSP (*Talent, Multidisciplinary, Entrepreneurship, Multicultural and Social Competencies*).

**15/01/2019 – 24/01/2019**

**PARTICIPANT**, RES4AFRICA

Participation to the fifth and sixth modules of the “Micro-Grid Academy”, dedicated to “Operation & Maintenance: most utilized micro-grid technologies and data management” (Nairobi, Kenya).

**29/12/2018 – 28/01/2019**

**TRAINEE**, ONLUS “TECNOLOGIE SOLIDALI”

Participation to the thirteenth edition of the “Field Study Abroad” project in the countries of Rwanda, Uganda, and Kenya. Visit to some plants (on and off grid) based on renewable sources, i.e., photovoltaic and hydroelectric, along with their energy accumulation systems, including innovative systems such as vanadium redox flow batteries.

Internship for the bachelor’s degree thesis with the title “Analysis of the impact of an ice machine on the performance of vanadium redox flow batteries in a stand alone mini-grid”.

**19/02/2019 – 08/04/2019**

**PARTICIPANT**, “SAPIENZA” UNIVERSITY OF ROME

Participation to the extracurricular course “Engineering and Energy Economics” held by Prof. Ing. Renato Enrico Urban on the economic aspects of the energy sector. The topics mainly

covered were the natural gas cycle and the construction of the TAV, and dedicated exercises have been done using suitable economic models using Excel.

## EDUCATION

### ONGOING

**PhD STUDENT IN ENERGY AND ENVIRONMENT, “SAPIENZA”**  
UNIVERSITY OF ROME

### OCTOBER 2021

**MASTER’S DEGREE IN ENERGY ENGINEERING, “SAPIENZA”**  
UNIVERSITY OF ROME

Vote: 110/110 cum laude

### JULY 2019

**BACHELOR’S DEGREE IN ENERGY ENGINEERING, “SAPIENZA”**  
UNIVERSITY OF ROME

Vote: 110/110 cum laude

### JULY 2016

**HIGH SCHOOL SCIENTIFIC DIPLOMA, STATE HIGH SCHOOL G.**  
PEANO – MONTEROTONDO (RM)

Vote: 100/100

## PUBLICATIONS

### INTERNATIONAL CONFERENCES

- Lorusso, P.; Del Nevo, A.; Arena, P.; Eboli, M.; Marinari, R.; Tincani, A.; Agostini, P.; Badodi, N.; Cammi, A.; Del Moro, T.; Vannoni, A.; Ciurluini, C.; Giannetti, F.; Barucca, L.; *STEAM: a novel experimental infrastructure for the development of the DEMO BoP water coolant technology*, “The 19th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-19)” Brussels, Belgium, March 6 - 11, 2022
- Del Moro, T.; Lorusso, P.; Giannetti, F.; Tarantino, M.; Caramello, M.; Vitale Di Maio, D.; *ATHENA Main Heat Exchanger Conceptual Design and Thermal-Hydraulic Assessment with RELAP5 Code*, Proceedings of the 2022 29<sup>th</sup> International Conference on Nuclear Engineering (ICONE 29), Shenzhen, China, August 8-12, 2022
- Del Moro, T.; Lorusso, P.; Giannetti, F.; Tarantino, M.; Caramello, M.; Vitale Di Maio, D.; Constantin, M.; *ATHENA Integral Test Facility: Secondary System Design and Thermal-Hydraulic Assessment with RELAP5 Code*, “The 13<sup>th</sup> International Topical Meeting on Nuclear Reactor Thermal-Hydraulics, Operation and Safety (NUTHOS-13)”, Hsinchu, Taiwan, September 5-10, 2022
- C. Ciurluini, A. Vannoni, T. Del Moro, P. Lorusso, A. Tincani, A. Del Nevo, L. Barucca, F. Giannetti; *“Thermal-hydraulic assessment of Once-Through Steam Generators for EU-DEMO WCLL Breeding Blanket primary cooling system application”*; Symposium on Fusion Technology (SOFT-2022), Dubrovnik, Croatia, September 18-23, 2022
- A. Tincani, C. Ciurluini, A. Del Nevo, F. Giannetti, A. Tarallo, C. Tripodo, A. Cammi, A. Vannoni, M. Eboli, T. Del Moro, P. Lorusso, L. Barucca; *“Conceptual design of the Steam Generators for the EU DEMO WCLL Reactor”*, Symposium on Fusion Technology (SOFT-2022), Dubrovnik, Croatia, September 18-23, 2022

## DELIVERABLES

- F. Giannetti, C. Ciurluini, T. Del Moro, A. Vannoni, A. Del Nevo, M Eboli, P. Lorusso, A. Tincani, *Thermal hydraulic conceptual design of the WCLL FW and BZ PHTS OTSG*, EC EUROfusion Project: 101052200, WP-BOP-S.02.02-T003-D001, IDM Ref. 2P8X8Y v1.0, 02-Dec-21
- F. Giannetti, C. Ciurluini, T. Del Moro, A. Vannoni, A. Del Nevo, M Eboli, P. Lorusso, A. Tincani, *Thermal hydraulic conceptual design of the IEOTSG*, EC EUROfusion Project: 101052200, WP-BOP-S.02.02-T004-D001, IDM Ref. 2P8X8Y v1.0, 02-Dec-21

## TECHNICAL REPORTS

- Lorusso, P.; Del Nevo, A.; Del Moro, T.; Vannoni, A.; *Conceptual design of the STEAM facility*, LR-D-S-569, ENEA report
- P. Lorusso, T. Del Moro, M. Tarantino, *Codes comparison summary report – Post-test simulations of the SIRIO experiment*, TH-N-R-574, ENEA report, SIRIO Project, WP5-LA5.5
- P. Lorusso, T. Del Moro, *ATHENA experimental facility heat exchanger conceptual design*, AT-D-R-581, ENEA report
- T. Del Moro, P. Lorusso, *Instrumentation of the Main Heat Exchanger for ATHENA experimental facility*, AT-D-R-616, ENEA report
- T. Del Moro, P. Cioli Puviani, *ATHENA Main Flow Path Analysis*, AT-D-R-621, ENEA report

## PROFESSIONAL SKILLS

### Job related skills:

- Good knowledge of fusion and fission nuclear power plants;
- Knowledge of innovative systems and components for nuclear applications;
- Experience on design of components for nuclear power plants;
- Skills on scaling methods for components from «reactor size» to smaller sizes in support of the design of experimental facilities.

### Computational skills:

- Knowledge of numerical tools (RELAP5/Mod3.3) and application in nuclear field;
- Simulation and thermo-hydraulics numerical analysis of systems and components in relevant configurations for nuclear power plants.

### Spoken languages:

- Italian (native);
- English (B2 level).

### Personal skills:

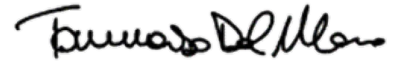
- Punctuality;
- Ability to handle unplanned situations;
- Adaptability;
- Good writing skills;
- Ability to work in team.

## PERSONAL ACTIVITIES

I am a passionate for soccer, and I played at a competitive level, participating at regional championships.  
I have served as a scrutineer during the referendum of 20 and 21 September 2020.

29/09/2022

Signature



I authorize the processing of personal data, in accordance with the provisions of law 196/03.