



# Lorenzo Pirillo

**Nationality:** Italian

## WORK EXPERIENCE

01/11/2022 - CURRENT Roma, Italy

**PHD IN AERONAUTICAL AND SPACE ENGINEERING** LA SAPIENZA UNIVERSITÀ DI ROMA

I actively took part in the accomplishment of the following industrial activities:

- *Support Activity for VEGA-E WTT tests.*
- *HTE project.*
- Numerical support activity for FD1 launcher.
- CFD Sloshing analyses for VEGA-E Propellant tanks.

I am Author of the following scientific papers:

- *"Non-Linear Damping in Lateral Liquid Sloshing inside a Cylindrical Tank with a Ring Device". Journal: Non Linear Dynamics. Full author list: Matteo Cimini; Francesca Rossetti; Lorenzo Pirillo; Giacomo Della Posta; Fulvio Stella; Matteo Bernardini.*
- *"A New Concept of Direct Oil Cooling System for AFPM Machines, Numerical Analysis and Optimization". Journal: Applied Thermal Engineering. Full author list: Lorenzo Pirillo; Matteo Cimini; Fabio Nardecchia, Fabio Bisegna.*

## EDUCATION AND TRAINING

2020 - 19/07/2022 Roma, Italy

**MASTER DEGREE IN ENERGY ENGINEERING** La Sapienza

**Website** <https://www.uniroma1.it/it/pagina-strutturale/home> |

**Field of study** Engineering, manufacturing and construction **Final grade** 110/110 Cum Laude |

**Thesis** "A New Concept of Direct Oil Cooling System for AFPM Machines, Numerical Analysis and Optimization".

2017 - 2020 Roma, Italy

**BACHELOR DEGREE IN ENERGY ENGINEERING** La Sapienza

**Website** [www.uniroma1.it/it/pagina-strutturale/home](http://www.uniroma1.it/it/pagina-strutturale/home) **Final grade** 110/110 Cum Laude

2012 - 2017 Roma, Italy

**SCIENTIFIC HIGH SCHOOL DIPLOMA** Liceo Scientifico Statale Luis Pasteur

**Final grade** 100/100

## LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken production	Spoken interaction	
ENGLISH C1		C1	C1	C1

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

**DIGITAL SKILLS**

CFD Software: CFD++, Pointwise, Fluent | Ansys Mechanical (Advanced) | Ansys Workbench, Ansys Fluent, Ansys APDL | Optimal knowledge of ANSYS Fluent | programming: Python, MATLAB and SQL | Python Language - Basic knowledge | Modelling (CATIA, 3DEXPERIENCE, SpaceClaim, etc.) | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

Data

09/11/2023