



Marco Maria Molinari

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Phone: (+39) 3388568492

Date of birth: 13/02/1997 **Nationality:** Italian

EDUCATION AND TRAINING

[01/11/2023 – Current]

PhD student in Aeronautical and Space Engineering

Sapienza University of Rome - Department of Mechanical and Aerospace Engineering - DIMA

[2019 – 2023]

Master's Degree in Aeronautical Engineering

Faculty of Civil and Industrial Engineering - Sapienza University of Rome

Thesis: "Numerical analysis of a lab-scale methane/oxygen thrust chamber assembly through a finite-rate pressure-based approach."

Supervisor: Prof. CIOTTOLI PIETRO PAOLO

[16/11/2022 – 21/11/2022]

CVA Professional Visit to European Space Port (CSG)

Community of Ariane Cities (CVA)

The visit was mainly focused on the on-site visits of the Jupiter and Pandora control rooms, the ELA4 (Ariane 6 launch area), the BAL (Bâtiment d'Assemblage Lanceur), the Ariane 6 launcher and the ESTRACK station in Kourou.

[2022 – 2023]

Scholarship at the Mechanical and Thermal Measurements Laboratory of Prof. Del Prete

Sapienza University of Rome - Department of Mechanical and Aerospace Engineering - DIMA

[30/06/2019 – 24/07/2019]

20th CVA SUMMER SCHOOL

Community of Ariane Cities (CVA)

A multidisciplinary top programs for Next generation Space Transportation system to enable tomorrow Space Economy evolutions.

Hosted by Sapienza University of Rome and Avio in Colleferro.

4-week summer school with 35 Aerospace Engineering students from leading European universities. The course comprised of lectures, technical visits, practical workshops, group work and cultural visits.

[2015 – 2019]

Bachelor's Degree in Aerospace Engineering

Faculty of Civil and Industrial Engineering - Sapienza University of Rome

Thesis: "STUDIO NUMERICO DELLE PRESTAZIONI DELL'ELICA PROPULSIVA IN AMBITO AERONAUTICO"

Supervisor: Prof. CIOTTOLI PIETRO PAOLO

[07/2019]

Rocket Science Project "Design, Buildt and Launch of Mini-Rockets"

Community of Ariane Cities (CVA)

[03/2019]

Participation in the seminar at the Sapienza University of Rome

"Introduction to Airline and Aerospace Economics"

[30/05/2019]

Speaker to the 2th ACADEME Meeting

Faculty of Civil and Industrial Engineering - Sapienza University of Rome

Meeting on AirCRAFT Analysis Design ModulEs (ACADEME)

[2010 – 2015] **High School Graduation**

Scientific high school "Galileo Galilei"

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

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

DIGITAL SKILLS

Wolfram Mathematica | MATLABSimulink | OpenFOAM | NASA CEA | CFD++ | ESTECO modeFRONTIER (Design Optimization Software) | MSC PatranNastran | MSC Adams | CATIA V5V6 | Latex Software | CAD Software (SolidWorks, AutoCAD, Fusion360) | GMSH (Mesh generator, pre- & post processing) | Finite Element Preprocessor ANSA