



● **EDUCATION AND TRAINING**

01/11/2021 – CURRENT – Rome, Italy

DOCTOR OF PHILOSOPHY – "Sapienza"

A study of viscoelastic properties of ultra-thin composite material.

03/05/2021 – 31/10/2021 – Rome, Italy

RESEARCH GRANT – "Sapienza"

Experimental and numerical research to realize boom structures for solar sails

2017 – 2020 – Rome, Italy

MASTER'S DEGREE IN SPACE AND AERONAUTICAL ENGINEERING – "Sapienza"

Thesis Title: "Design of the solar sail boom structure for the HELIANTHUS Project"

Preliminary design and prototype manufacture and tests of the boom structure supporting the solar sail of the HELIANTHUS Project.

110/110 with honors

2014 – 2017 – Rome, Italy

BACHELOR'S DEGREE IN AEROSPACE ENGINEERING – "Sapienza"

Thesis Title: "Flight dispatching as a method of increasing safety in helicopter rescue operations"

With reference to the guidelines provided by the International Civil Aviation Organization (ICAO), technical documentation was drawn up to define the duties of the Flight Dispatcher and the related procedures.

110/110 with honors

02/2019 – 01/2021 – Rome, Italy

FELLOWSHIP AT STRUCTURE DYNAMICS LAB (SDL) AND SAPIENZA AEROSPACE STRUCTURES LAB (SASLAB) – "Sapienza"

Experimental testing and multiscale modeling of aerospace material, modal characterization of structure through vibrational analysis, empirical and numerical study of manufacturing processes.

09/2019 – Orlando, United States

SCHOLARSHIP WINNER FOR THE INTERNATIONAL AIR AND SPACE PROGRAM – AEXA

Program that involves teamwork, problem-solving and communication, among students and expert NASA engineers.

07/2018 – 08/2018 – Sevilla, Spain

SUMMER SCHOOL STUDENT – 19th CVA (Communaute des Villes Ariane) Summer School

Multidisciplinary Course on Space Transportation Systems.

09/2015 – 11/2016 – Rome, Italy

SAPIENZA SPACE TEAM (SST) MEMBER – Sapienza Aerospace Studen Association (SASA)

Member of the Sapienza Space Team, chief of the Mechanical Subsystem with a focus on payload integration and deployment mechanisms. The team was involved in a project which consisted in design, development and launching a space system. The project ended with the participation in the CanSat competition, held in Abilene by NASA.

● **WORK EXPERIENCE**

08/2019 – 11/2019 – Genève, Switzerland

INTEGRATION ENGINEER – CERN

Installation Technical Planning Study for the Enfourneur, a machine for removal and insertion of ECAL (electromagnetic calorimeter) SuperModules for CMS (Compact Muon Solenoid) experiment.

2020 – Rome, Italy

INFN ASSOCIATE MEMBER – ISTITUTO NAZIONALE FISICA NUCLEARE (INFN)

Contact person for the Enfourneur technical installation plan.

09/2017 – 12/2017 – Viterbo, Italy

SAFETY ENGINEER – ELITALIANA S.P.A.

Assistance to the Quality Manager in formalising procedures to increase the safety of heli-rescue operations.

● **LANGUAGE SKILLS**

Other language(s):

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

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

● **DIGITAL SKILLS**

Programming skills

MATLAB&Simulink

CAD design and FEM analysis

Abaqus (FEM) | Patran/Nastran | CATIA V5/V6 | Apex | Solid Works Solid Edge AutoCad | Digimat | MSC Adams

Testing data acquisition and analysis

LMS TestLab | TrapeziumX Software | STARe Software