

Daniele Iannarelli

Date of birth: 14/08/1993 | Nationality: Italian | Gender: Male | (+39) 3420773612 |

danieleiannarelli@outlook.com | Via Giuseppe Verdi 18, 04018, Sezze, Italy

WORK EXPERIENCE

15/03/2020 – 31/08/2020

RESEARCH ENGINEER – FAU University

EDEM Project: Optical measurement for fuel mixing in Constant Volume Chamber.
Dual fuel technology for heavy duty engine.

Nuremberg, Germany

22/07/2019 – 20/12/2019

SPACE ENGINEER – Avio

Development of a functional model of Attitude Control System for the VEGA launcher. Design and simulations through EcosimPro software. Priming Phase and performance analysis in time of the system at propulsive level.

Colleferro, Italy

EDUCATION AND TRAINING

28/09/2020 – CURRENT – Via Salaria 851, Roma, Italy

SPECIAL MASTER OF AEROSPACE ENGINEERING – Sapienza

Hybrid propulsion and new launch systems, Advanced control of space vehicles, Design of electronic systems for space, Advanced topics in aerospace engineering.

EQF level 8 | Laurea a Statuto Speciale | 63

07/01/2019 – 31/12/2019 – Rome, Italy

MASTER COURSE IN SPACE TRANSPORTATION SYSTEM: LAUNCHERS AND RE-ENTRY VEHICLES – Sapienza

Overview of Launcher Systems, Space Program Management & Quality Certification, Mission Analysis, Combustion Modeling, LRE Thrust Chamber, Pump-fed Systems, Rocket Nozzles, Aerothermo-dynamics of launchers and re-entry vehicles, Solid Rocket Motors, Space Launcher Structures, Launcher Design, Launcher Ground Segment, Launcher System Management.

EQF level 8

20/05/2019 – 24/05/2019 – Paris, France

SEMINAR ON GNC FOR THE EUROPEAN HEAVY LAUNCHER ARIANE 5/6 – CNES (Centre National d'Etudes Spatiales)

Intensive Program on launchers' GNC system.

EQF level 8

13/05/2019 – 17/05/2019 – Bruxelles, Belgium

EXPERIMENTAL ACTIVITY AND DATA POST PROCESSING ON SLENDER BODY IN A SUPERSONIC FIELD – VKI (Von Karman Institute)

Intensive Program on Visualization techniques in Supersonic Flows and Data Analysis.

EQF level 8

03/10/2015 – 21/01/2019 – Rome, Italy

MASTER DEGREE IN SPACE AND ASTRONAUTICAL ENGINEERING – Sapienza

Control Systems, Space Propulsion, Space Flight Mechanics, Electronics, Space Constructions, Launcher Flight Mechanics, Spacecraft Design, Space Robotic Systems, Solid Rocket Motors, Gas Dynamics, Liquid Rocket Engine, Missions and Space Systems, Aerospace Materials.
Thesis "Simulations of the real truncated optimum nozzle in presence of turbulent viscous boundary layer"
Supervisor prof. Francesco Nasuti

EQF level 7

10/10/2012 – 03/11/2015 – Rome, Italy

BACHELOR DEGREE IN AEROSPACE ENGINEERING – Sapienza

Mathematical Analysis I, Mathematical Analysis II, Geometry, Chemistry, Physics I, Physics II, Thermodynamics, Rational Mechanics, Science and Technology of Materials, Aerodynamics, Electrotechnics, Applied Mechanics and Design, Construction Science, Aerospace Construction, Flight Mechanics, Numerical Methods and Elements of Programming, Aerospace Propulsion, Aerospace Telecommunications, Economy, Space Systems, Space Systems Laboratory, Space Propulsion Laboratory.
Thesis "Performance analysis and sounding rockets trajectory"
Supervisor prof. Daniele Bianchi

EQF level 6

03/09/2007 – 10/06/2012 – Latina, Italy

SCIENTIFIC HIGH SCHOOL DIPLOMA – Liceo Scientifico Giovan Battista Grassi

EQF level 4

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

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

DIGITAL SKILLS

Matlab | Fortran | CFD | Tecplot 360 | CEA | Simulink | Linux | Adina | Nastrando Patran | Orbital determination | STK | EcosimPro | CATIA | Windows Office | Latex

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Excellent communication ability gained through my experience as student representative at high school.
Excellent support capacity gained through my experience as tutor at high school and university level.

JOB-RELATED SKILLS

Job-related skills

Good knowledge of Matlab
Good knowledge of Fortran
Good capacity of CFD simulations and field visualization with Tecplot 360
Good knowledge of CEA
Good knowledge of Simulink
Good knowledge of Linux
Good knowledge of Adina
Good knowledge of Nastran & Patran
Good capacity of processing data for Orbital Determination
Good knowledge of STK
Good knowledge of EcosimPro
Good knowledge of CATIA
Good knowledge of Windows Office
Good knowledge of LateX