

PERSONAL INFORMATION

Giacomo Passarani giacomo.passarani@uniroma1.it

Nationality Italian

JOB APPLIED FOR

Incarico di lavoro autonomo per attività di coordinamento dei corsi di orientamento da svolgersi presso gli istituti scolastici del territorio laziale

WORK EXPERIENCE

Nov 2023 – Mar 2024

Paid Scholarship

Faculty of Civil and Industrial Engineering, Sapienza, University of Rome, Italy
Tutoring activities in the subjects of Mathematical Analysis and Geometry

23 Oct 2023 – 17 Nov 2023

Internship

Italian Navy, Mediterranean sea

Space cell member - Participation in the NATO military exercise "Mare Aperto 2023-2" on board of the Italian Military Aircraft Carrier "Cavour" as Aerospace Engineer

Sector Military exercise

Nov 2022 – Mar 2023

Paid Scholarship

Faculty of Civil and Industrial Engineering, Sapienza, University of Rome, Italy
Tutoring for the information/accommodation service

EDUCATION AND TRAINING

Nov 2024–ongoing

PhD student

EQF 8

Department of Mechanical and Aerospace Engineering, Sapienza, University of Rome, Italy

- Study of multiphase flow effects on Solid Rocket Nozzle performance
- Liquid Rocket Engines combustion chambers CFD simulations
- Solid Rocket Nozzle mechanical erosion

Oct 2021–Jul 2024

Master of Science in Space and Astronautical Engineering

EQF 7

Sapienza, University of Rome, Italy

Thesis: "Study of the effects of grain steps in hybrid rocket engines via CFD simulations"

Final Grade: 110/110 cum Laude

- Computational Fluid Dynamics
- Space Propulsion
- Spaceflight Mechanics
- Space Structures
- Space Missions and Systems

Oct 2018–Jul 2021

Bachelor of Science in Aerospace Engineering

EQF 6

Sapienza, University of Rome, Italy

Thesis: "Hydrogen propulsion for aviation: general framework and combustion chambers"

Final Grade: 110/110 cum Laude

Path of excellence successfully completed

PERSONAL SKILLS

Mother tongue Italian

Other languages

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

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills I have excellent team-working skills, acquired during the space propulsion laboratory course in the final year of my bachelor's degree. I have also played in futsal teams as goalkeeper for more than 8 years.

Organisational / managerial skills I possess good leadership, gained throughout my university years.

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills – competent with most Microsoft Office programmes, MATLAB, Fortran, Tecplot, VS Code
– experience with Python, Linux (Ubuntu)

Other skills Good handwork skills

Driving licence B

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali"