



Alfredo Locarini

Date of birth: 10/10/1988 | **Nationality:** Italian | **Phone number:** (+39) 3200224972 (Mobile) | **Email address:** alfredo.locarini@spacenautilus.com

● WORK EXPERIENCE

07/2021 – CURRENT Forlì, Italy

CEO & PROJECT MANAGER NAUTILUS - NAVIGATION IN SPACE

- Company administration
- Business development
- Program and project management.
- Coordination of space system engineering activities.

02/2018 – CURRENT Forlì, Italy

ADJUNCT PROFESSOR ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

Lecturer of "Spacecrafts and Space Missions" (6 CFU), B.Sc. in Aerospace Engineering.

Subject:

- satellites architectures and design
- space project lifecycle
- ADCS
- power system
- thermal design
- telecommunications
- electronics for space
- structures
- propulsion

11/2017 – CURRENT Forlì, Italy

POSTDOCTORAL RESEARCHER DIN/CIRI-AEROSPACE, UNIVERSITÀ DI BOLOGNA

Responsible for several private and public, national and European, projects focused on:

- small satellites subsystems design
- on board autonomous GNSS navigation
- mission analysis
- mission design
- requirements management
- collision avoidance
- deep space communication architectures.

07/2017 – 12/2017 Nottingham, United Kingdom

VISITING PH.D. RESEARCHER NOTTINGHAM GEOSPATIAL INSTITUTE

Validation of GNSS navigation systems for satellites in LEO.

Study of estimation techniques and filters for autonomous navigation.

11/2014 – 10/2017 Forlì, Italy

PHD RESEARCH FELLOW ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

Research activities in the field of:

- GNSS
- Navigation filters
- Autonomous navigation
- Ground Segment and operations

2012 – 2013 Forlì, Italy

BUSINESS DEVELOPER SPACEMIND STARTUP- SPINNER CONSORTIUM

Development of a business idea on nano- space systems, funded by the Startup Spinner Program 2013 call, with the "SPACEMIND" project, with particular focus on de-orbiting systems and mitigation of the space debris problem.

2013 – 2014 Imola, Italy

SPACE SYSTEMS R&D ENGINEER NPC SPACEMIND

R&D activities on cubesat technologies. Focus on de-orbiting systems, active debris removal, innovative cubesat structures and materials and ground-based optical debris monitoring solutions.

● **EDUCATION AND TRAINING**

10/2023 – 09/2024 Rome, Italy

MASTER IN BUSINESS ADMINISTRATION Rome Business School

10/2022 – 09/2023 Rome, Italy

MASTER IN PROJECT MANAGEMENT Rome Business School

2014 – 2018 Forlì, Italy

PH.D. IN MECHANICS AND ADVANCED ENGINEERING SCIENCES - AEROSPACE SYSTEMS Alma Mater Studiorum - Università di Bologna

Thesis "Design, Development and Testing of a GPS-Based Navigation sub-System for Microsatellites Missions".

2011 – 2014 Forlì, Italy

MASTER OF SCIENCE IN AEROSPACE ENGINEERING Alma Mater Studiorum - Università di Bologna

Final grade 110/110 CUM LAUDE | **Thesis** "Design of a GNSS receiver for the ESEO Mission"

2013

HIGH FORMATION COURSE "EUROPEAN STUDENT EARTH ORBITER (ESEO): STUDENT TRAINING (LECTURE AND TRAINING COURSE)" Università di Bologna - ESA

2007 – 2011 Forlì, Italy

BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING Alma Mater Studiorum - Università di Bologna

Final grade 110/110 CUM LAUDE |

Thesis "Autonomous space debris observation with the ALMASCOPE optical telescope"

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

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

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

- **DIGITAL SKILLS**

Catia V5 | Microsoft Office | Solidworks | GMAT | Matlab | Orbitron | Eagle | Altium Designer | C / C++ Language | Python | Ansys | NAIF Spice | Project Libre | ValiSpace | MS Project

- **ADDITIONAL INFORMATION**

HONOURS AND AWARDS

2021

First Place in the Telespazio Technology Contest T-TEC 2021 – Telespazio “Multi-Purpose Modular Satellite Servicer” project.

2014

First place in the 3rd Mission Idea Contest (MIC) – UNISEC-Global “Cloud Height Mission” project.

2014

Third place in the Canadian Satellite Design Challenge (CSDC) competition – CSDC Consortium
Development of a 3U cubesat for polar regions monitoring, in collaboration with the École Polytechnique de Montréal.