

## PERSONAL INFORMATION

## Paolo Tortora



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## CURRENT POSITION

Full Professor - University of Bologna  
Dipartimento di Ingegneria Industriale

Academic discipline: ING-IND/05 Aerospace Equipments and Systems  
Director –Interdepartmental Center for Industrial Research  
(CIRI) Aerospace

2006-

- Lecturer for the following courses:
  - Aircraft On-board Systems L
  - Fundamentals of Orbital Mechanics L

*The teaching activities are detailed at the URL: [www.unibo.it/sitoweb/paolo.tortora/teachings](http://www.unibo.it/sitoweb/paolo.tortora/teachings)*

## WORK EXPERIENCE

2012-2018

**Course Director, BSc and MSc in Aerospace Engineering**

University of Bologna – School of Engineering and Architecture

2006-2017

**Associate Professor**

University of Bologna – Second Faculty of Engineering (then School of Engineering and Architecture)

- Responsible for the Academic discipline “Aerospace Equipments and Systems”
- Lecturer for the following courses::
  - Aircraft On-board Systems L
  - Fundamentals of Orbital Mechanics L
  - Satellites and Space Missions L
  - Spacecraft Orbital Dynamics and Control LM (taught in English)
  - Spacecraft Attitude Dynamics and Control LM (taught in English)
- Founder and Head of the “Microsatellites and Space Microsystems Lab”
- Founder and Head of the “Radio Science and Planetary Exploration Lab”

Academic discipline: ING-IND/05 Aerospace Equipments and Systems

2007-2012

**Founder and Managing Director**

ALMA Space S.r.l. – spin-off of the University of Bologna

Company created from the Microsatellites and Space Microsystems Lab at the University of Bologna, to bring to the market the R&D results in small satellites area, later (in 2014) merged with SITAEL S.p.A to become the largest privately owned company in Italy operating in the space sector and with an undisputed national and international leadership in the area of turn-key small satellite missions

- 2002-2006 **Assistant Professor**  
 University of Bologna – Second Faculty of Engineering
- Responsible for the Academic discipline “Aerospace Equipments and Systems”
  - Lecturer for the following courses::
    - Aircraft On-board Systems L
    - Fundamentals of Orbital Mechanics L
    - Space Systems LM
  - Founder and Head of the “Microsatellites and Space Microsystems Lab”
  - Founder and Head of the “Radio Science and Planetary Exploration Lab”
- Academic discipline: [ING-IND/05 Aerospace Equipments and Systems](#)

EDUCATION AND TRAINING

- 2001 **PhD in Aerospace Engineering**  
 University of Rome “la Sapienza”
- Microsatellites, Microsystems, Launchers, Estimation Theory, Attitude Determination, Orbit Determination
- 1997 **Master’s Degree in Aeronautical Engineering**  
 University of Rome “la Sapienza”
- Aerodynamics, Gasdynamics, Aeronautical Structures, Flight Mechanics, Astrodynamics, Spaceflight Mechanics, Rocket Propulsion, Material Science

PERSONAL SKILLS

Mother Tongue Italian

Other Languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken production	
English*	C1	C1	C1	C1	C1
French	A2	B1	A2	A2	A2

\* IELTS Academic Test (30 June 2018), Overall Band Score: 7.0; CEFR Level: C1

Communication skills ▪ Excellent communication skills acquired in about twenty years of lecturing as an academic teacher and managing national and international research projects.

Organisational / managerial skills Leadership (currently responsible for a team of 20 people)  
 Manager of international research projects carried out (among others) for the European Space Agency and the Italian space Agency.  
 The complete list of research projects managed since 2003 until today is available at the URL: [www.unibo.it/sitoweb/paolo.tortora/cv-en](http://www.unibo.it/sitoweb/paolo.tortora/cv-en)  
 The list of PhD students supervised is available at the URL: [www.unibo.it/sitoweb/paolo.tortora/cv-en](http://www.unibo.it/sitoweb/paolo.tortora/cv-en)

Professional skills The list of scientific responsibilities and assignments is available at the URL: [www.unibo.it/sitoweb/paolo.tortora/cv-en](http://www.unibo.it/sitoweb/paolo.tortora/cv-en)

- Excellent knowledge of aircraft and spacecraft on-board equipment and systems, acquired in more than 20 years of post-graduate research.
- Excellent knowledge of space missions design techniques
- Excellent knowledge of deep space probes tracking and orbit determination systems

- Computer skills
- Proficient with Microsoft Office programmes
  - Proficient with the Matlab/Simulink package
  - Proficient with Windows/Linux/Unix operating systems
  - Proficient with Fortran/C programming languages

#### ADDITIONAL INFORMATION

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- Publications** Author of 127 publications indexed on Scopus (h-index = 22, August 2021)  
The complete publication list is available at the URL:  
[www.unibo.it/sitoweb/paolo.tortora/publications](http://www.unibo.it/sitoweb/paolo.tortora/publications)
- Presentations** Presenter of more than 60 scientific talks at national or international congresses, workshops, exhibitions and outreach events
- Memberships** Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA). Senior Member of the Institute of Electrical and Electronic Engineers (IEEE), Full member of the Institute of Navigation (ION).
- Awards** 2009: NASA Group Achievement Award to the Cassini Radio Science Team  
2015: NASA Group Achievement Award to the Enceladus and Titan Gravity Science Team

Forlì, 22 October 2021