

## Andrea Bellanca Curriculum Vitae

---

### Personal Details

Name: Andrea Bellanca  
Gender: Male  
Address: 29 Av. Jean Baptiste de Lamarck  
Balma (Toulouse), 31130  
France  
Mobile: +33 (0) 6 38 99 28 92  
E-mail: a.bella87@hotmail.it  
Date of Birth: 09 July 1987  
Nationality: Italian  
Languages: Italian (mother tongue)  
English (fluent)  
French (fluent)  
Spanish (beginner)



Key Skills: \* Aerospace engineering  
\* System engineering  
\* Project management  
\* Problem solving  
\* Research and development  
\* Modelling and simulations  
\* Hydraulic simulations and analysis  
\* Thermofluids simulations and analysis  
\* Mechanical simulations and analysis  
\* ATEX 2-E certificate  
\* Pressure Equipment Directive (PED) 2014/68/EU  
\* Cryogenic fluids process (LH2/LCH4/LOX/LN2)  
\* Automation systems (Beckhoff Automation, Schneider Electric)

Computer Literacy: OS Windows, Matlab, Simulink, Simscape, PipeFLO, Visual Vessel Design (VVD), EcosimPro PROOSIS, Ansys Fluent, Twincat 3, LINTools, Autocad, Codesys, LateX, Solid Works, Microsoft Office, Microsoft Project

### Employment History

02/2026-... *Politecnico di Milano (DAER)*  
Position: LUMIO Mission Project Manager / DART Lab Program Manager  
Base Location: Milano, Italy

#### Area of work:

\*LUMIO (Lunar Meteoroid Impacts Observer) Program  
Program and project management for ESA/ASI-funded lunar mission activities. Coordination of research projects, consortium partners, and DART Lab teams. Oversight of schedule, risks, PA/QA compliance, and dissemination of mission results.

04/2024-01/2026

*SpaceDreamS SAS*  
Position: Product Manager Cryogenic Processes  
Base Location: Toulouse, France

Area of work:

\*Test benches and launch complexes systems standardization

Technical coordination, engineering process management, and promotion of component and product standardization for launch pads and test benches.

\*Eu-BEST LOX/LCH4 Test Bench

Design and development of methane/oxygen test facility systems.

\*MaiaSpace LCH4 System

Coordination of cryogenic infrastructure development for launcher operations at the Guiana Space Centre.

\*HyPrSpace LOX System (Pad B1/OB1)

Technical management of LOX network design and integration.

08/2022-04/2024

*DESTINUS SAS*  
Position: Ground Segment Lead Engineer  
Base Location: Toulouse, France

Area of work:

\*Destinus Aircrafts Ground Segment

Lead Engineer in charge of Destinus airport infrastructures design and development for conventional and cryogenic fluids networks. Liquid Hydrogen refuelling systems and operations

\*ITP-Aero/Destinus Liquid Hydrogen Test Facility

Technical Leader of cryogenic (LH2/LN2) test facility development Destinus team. Liquid Hydrogen distribution systems and operations

01/2022-07/2022

*VINCI Energies France - Telematic Solutions s.r.l.*  
Position: Project Manager  
Base Location: Milano, Italy

Area of work:

\*Vega-E GPM Cryogenic networks

Project manager in charge of design and development for Vega-E launch complex cryogenic networks (LCH4/LOX).

2017-2021

*VINCI Energies France - Telematic Solutions s.r.l.*  
Position: System Engineer  
Base Location: Milano, Italy

\*Vega-C ZLV Water Injection System

Hydraulic studies, design, water network development  
Modelling and simulation of system transient behaviour

\*Vega-E GPM feasibility studies

Feasibility studies on cryogenic (LCH4/LOX) and not cryogenic fluids networks to select the most suitable location for Vega-E launch complex

\*Ariane6 ELA4 Sound suppression system

Hydraulic studies, design, water network development and commissioning

Modelling and simulation of system transient behaviour

Numerical models experimental validation

\*Ariane6 ELA4 Deflector unit thermal protection system

Hydraulic studies, design, water network development and commissioning

\*Ariane6 ELA4 Launcher Fairing ventilation

Thermal-fluids dynamics studies, automation system development and commissioning

\*Ariane6 ELA4 Launcher Stages ventilation

Thermofluids dynamics studies, automation system development and commissioning

\*Ariane6 ELA4 Cryogenic lines testing system

Thermal-fluids dynamics studies for cryogenic fluids (LH2/LOX) systems and automation system development

\*Ariane6 LLPM Hot fire test

Multiphase thermal-fluids and mechanical studies to design thermal protection systems to protect infrastructures from being damaged by Vulcain 2.1 jet exhaust during long-duration qualification test

2017

*Politecnico di Milano (DAER)*

Position: Research contractor

Field of research:

\*Development of Matlab/Simscape numerical model for Ariane6 launch pad sound suppression and thermal protection systems.

2011-2015

*Fec spa, Italy*

Position: Staff Manager

Fec spa is leading creator of family entertainment centres.

2007-2011

*Fec spa, Italy*

Position: Commis-Bar

2007-2011

*TMS Group, Italy*

Position: Promoter

*Educational History*

2014-2017

M.Sc. degree, Space Engineering

Politecnico di Milano

Master Thesis:

*Control synthesis and parabolic flight experiment for tethered active debris removal missions*

Supervisor: *Michèle Lavagna*

2009-2014

B.Sc. degree, Aerospace Engineering

Politecnico di Milano

- 2013 English Communication Skills  
Upper Intermediate – Advanced  
EF International Language School, Sydney, Australia
- 2001-2006 High School  
Industrial technical High School "G. Marconi", Dalmine, Italy  
Specialization Electronic and Telecommunication

Publications

- 2017 Andrea Bellanca, Alberto Provasi. *Launch environment water flow simulations*. The 2nd Ground Based Space Facilities symposium, Toulouse, France.
- 2017 Alberto Provasi, Alessandra Gorla, Ludovico Bruno, Andrea Bellanca. *Qualification tests of Ariane 6 water sound suppression system valves*. The 2nd Ground Based Space Facilities symposium, Toulouse, France.
- 2017 Vincenzo Pesce, Andrea Bellanca, Paolo Lunghi, Michèle Lavagna. *Tethered systems in ADR: satleash microgravity experiment and future developments*. 68th International Astronautical Congress, Adelaide, Australia.
- 2017 Vincenzo Pesce, Andrea Bellanca, Paolo Lunghi, Michèle Lavagna. *The SatLeash experiment: a step forward in technology development for future active debris removal missions*. 14th Symposium on Advance Space Technologies in Robotics and Automation, Scheltema, Leiden, the Netherlands.
- 2017 Andrea Bellanca, Vincenzo Pesce, Paolo Lunghi, Michèle Lavagna. *Wave based control analysis and experimental validation for reliable space transportation applications*. 10th International ESA Conference on Guidance, Navigation & Control Systems, Salzburg, Austria.
- 2017 Riccardo Benvenuto, Michèle Lavagna, Paolo Lunghi, Vincenzo Pesce, Andrea Bellanca, Simone Flavio Rafano Carnà, Ann Delahaye, Lukas Pfeiffer. *Tethered-tugs for active debris removal: microgravity experimental validation of dynamics and control*. 7th European Conference on Space Debris, Darmstadt, Germany.
- 2017 Vincenzo Pesce, Andrea Bellanca, Michèle Lavagna, Riccardo Benvenuto, Paolo Lunghi, Simone Flavio Rafano Carnà. *Satleash-Parabolic flight validation of tethered-tugs dynamics and control for reliable space transportation applications*. 27th AAS/AIAA Space Flight Mechanics Meeting, San Antonio, Texas.
- 2016 Riccardo Benvenuto, Paolo Lunghi, Vincenzo Pesce, Simone Flavio Rafano Carnà, Andrea Bellanca, Michèle Lavagna, Ann Delahaye, Joris Naudet, Lukas Pfeiffer. *Parabolic flight experiment to validate tethered-tugs dynamics and control for reliable space transportation applications*. 67th International Astronautical Congress, Guadalajara, Mexico.