

# LAURA MONTIRONI

## PERSONAL INFORMATION

Innately fascinated by complex technical subjects and out-of-comfort-zone challenges, I love finding compromises and solutions, using a cocktail of creativity, empathy and analytical mindset.

## WORK EXPERIENCES

*January 2024*      AIRBUS COMMERCIAL AIRCRAFT - TOULOUSE  
- *Now*

*System and Air  
Traffic  
Management  
Program*

The system and ATM program launches, follows and steers several aircraft system design projects with the objective of keep innovating, improve the customer satisfaction and keep Airbus product at the pace of the ATM world. I am responsible for various of our portfolio projects. In this context, I am also covering the role of project coordinator for the GEESE SESAR<sub>3</sub> Project. This project was awarded by a European Commission funding and gathers around 20 different companies around Europe and not only.

[Discover more about GEESE](#)

*January 2021*  
- *December*      AIRBUS UPNEXT - TOULOUSE  
2023

*Active control -  
Load Alleviation  
Function and  
Active Flutter  
Suppression*

Within the Aircraft Design team of the eXtra-performance WING demonstrator, I was responsible for the Load Alleviation Function and Flutter Control Law design, as well as following several Flight Control System - Aircraft Design transversal topics. The demonstrator project consists in designing, manufacturing and testing a flying demonstrator.

[Discover more about Airbus Upnext](#)

*Apr 2019 -*      AIRBUS COMMERCIAL AIRCRAFT - TOULOUSE  
*Dec 2020*

*A350XWB EFCS  
Focal Point for  
Loads and  
Aeroelastics*

Being the Flight Control system focal point for A350XWB within the Loads and Aeroelastics department, I was playing an active role in finding the good compromise between the flight control system design choices and their Loads and Aeroelastics impacts. In this context I was responsible for delivering the loads and aeroelastics flight test clearances for the flight control law development standards, as well as delivering the certification documents for failure cases and flight control law certified standards.

<http://www.airbus.com>

*Sept 2018 -*      AIRBUS COMMERCIAL AIRCRAFT - TOULOUSE  
*Mars 2019*

*EFCS Support for  
Loads and  
Aeroelastics*

Moving my first steps in the technical field of Flight Control Law - Loads and Aeroelastics interactions, I supported several activities within the Loads and

Aeroelastics team in Toulouse.  
<http://www.airbus.com>

## PREVIOUS EXPERIENCES

Sept 2017 - AIRBUS COMMERCIAL AIRCRAFT - HAMBURG  
 Apr 2018

*Loads and  
 Aeroelastics  
 Master Thesis  
 Intern*

I joined the Gust Loads & Aeroelastics team in Airbus Hamburg for eight months, in the context of an internship finalised to do some research activity for my Master Thesis. I analysed the feasibility of using Linearized Computational Fluid Dynamics to calculate flight loads in 1g trim state.  
<http://www.airbus.com>

Sept 2016 - HYPERLOOP TEAM ITALIA  
 Apr 2017

*Hyperloop Team  
 Italia - Team  
 Leader and  
 Technical Advisor*

Hyperloop Team Italia was one of the teams participating to the international SpaceX Hyperloop Pod Competition II. My role was to organise the team and coordinate all the technical and non-technical activities, according to the competition deadlines and keeping all the team members involved and motivated. I was also representing the team in front of all the suppliers and industrial partners and sponsors we involved in our project.  
<http://www.spacex.com/hyperloop>

Aug 2016 - VON KARMAN INSTITUTE FOR FLUID DYNAMICS  
 Oct 2016

*CFD Short  
 Research Program*

I spent 3 months in the Von Karman Institute for Fluid Dynamics in Belgium, in the context of a Short Research Program for which I was selected among several applicants. I worked on Multiphase Flows simulations using the software Fluent, for the Environmental and Applied Fluid Dynamics department.  
<https://www.vki.ac.be>

Nov 2015 - E-TEAM - AERODYNAMICS DIVISION  
 Jan 2017

*Racing Car  
 Student Team  
 Member*

E-Team Squadra Corse is the Racing Team carrying the flag of the University of Pisa to international Formula SAE and Formula Student Competitions. I designed the Front Wing of our 2016 racing car, and the cooling system configuration of our 2017 car. Besides of playing the "designer" role, I was also involved in the manufacturing phase of some composite parts of our car, as well as on the whole car final assembly phase.  
<http://www.eteamsquadracorse.it>

Aug 2015 - NASA - CALTECH JET PROPULSION LABORATORY  
 Oct 2015

*Heliophysics Image  
 Processing  
 Summer Intern*

I served a Summer Internship at the Heliophysics Laboratory of the NASA Jet Propulsion Laboratory in Los Angeles. I conceived and implemented a code finalized to automatically post-process some telescope images of Saturn.  
<http://www.jpl.nasa.gov>

## EDUCATION

University of Pisa Master Degree

Sept 2015 - July  
 2018

Mark: 110 cum laude/110 · Aeronautical Engineering

During my Aeronautical Engineering studies at the University of Pisa I gained a good knowledge of all the main engineering and aeronautical fields of studies, such as structures, aerodynamics, flight mechanics, systems, machine design, manufacturing etc.

<https://www.unipi.it>

*Sant'Anna  
School*

Supplementary Academic Education

Oct 2012 -  
December 2018

Scholarship won on the basis of a public national selection · Industrial Engineering

I was selected to be an *Allievo Ordinario*, through a rigorous public examination (about 5% admission rate), providing a full government-funded scholarship. In exchange, I had to hold the highest standards in my University of Pisa studies, as well as taking several advanced extra exams.

· First Level Diploma - June 2016 - Mark: 100 cum laude/100

· Second Level Diploma - December 2018 - Mark: 100 cum laude/100

<https://www.santannapisa.it>

*University  
of Pisa*

Bachelor Degree

2012 - 2015

Mark: 110 cum laude/110 · Aerospace Engineering.

In my Aerospace Engineering studies at the University of Pisa I gained a good knowledge of all the theoretical bases of engineering, such as physics, mathematics, chemistry etc., as well as the basic aerospace engineering knowledge.

<https://www.unipi.it>

*Liceo Leopardi  
of Recanati*

High School Diploma

2007 - 2012

Mark: 100/100 · Scientific High School Diploma, Experimental Curriculum

The Experimental Curriculum of a Scientific High School consists in an increased amount of weekly lesson hours finalized to provide students with a more solid knowledge of physics.

#### INFORMATICS SKILLS

<i>Basic</i>	Nastran, Patran, C language
<i>Intermediate</i>	Catia, Ansoft Maxwell, IDL language, Labview, Python language, LaTeX
<i>Advanced</i>	Microsoft Office, Google G Suite, Solidworks, Matlab, Simulink, Fluent, ICEM, Ansys Mechanical

#### LANGUAGES

ITALIAN · Mother tongue

FRENCH · Advanced

ENGLISH · Advanced · Cambridge English: First (FCE)

## AWARDS

*Marisa Bellisario Foundation*  
 June 2019 XXXI Marisa Bellisario Award  
*Mela d'Oro Award* · Engineering Fresh Graduate Woman

The *Mela d'Oro Award* is assigned by the Marisa Bellisario Foundation in recognition of the women value in several fields. I was awarded with this prize as a promising woman graduate in engineering. <http://www.fondazionebellisario.org>

## COMMUNICATION &amp; MEDIA EXPERIENCE

*Airbus Article Contributor*  
 27 September 2024 GEESE PROJECT ARTICLE ON AIRBUS WEBSITE  
 I was interviewed in the context of an article talking about the "Wake Energy Retrieval" principle and the GEESE SESAR<sub>3</sub> project. The article was published on the Airbus Website and also on several other aviation websites.  
<https://www.airbus.com/en/newsroom/stories/2024-09-airbus-and-sesar-partners-are-taking-wake-energy-retrieval-to-the-next>

*Video speaker*  
 10 Avril 2024 ATC NETWORK - GEESE PROJECT VIDEO  
 I contributed to a video created and diffused by ATC Network, in which I give some details about the GEESE project and the so-called "Wake Energy Retrieval" principle.  
<https://www.atc-network.com/atc-videos/sesar-joint-undertaking/geese-wake-energy-retrieval-project>

*TV documentary contributor*  
 04 Avril 2024 LE RÊVE DE LÉONARD LES SECRETS DU VOL DANS LA NATURE  
 I contributed to a documentary talking about the flight technique, created and diffused by France TV for their documentary series "Science grand format".  
<https://www.francetvpro.fr/contenu-de-presse/65662278>

*Panel Guest*  
 22 September 2021 AIRBUS SUMMIT 2021  
 I participated at the Airbus Summit 2021 - day 2 - as one of the participants in the "Preparing for tomorrow" panel discussion, together with Thierry Baril, Jumoke Fagbemi and others.  
<https://www.airbus.com/en/newsroom/events/airbus-summit-2021/airbus-summit-2021-preparing-for-tomorrow>

*On Press*  
 November 2022 PRESS MENTIONS  
 L'usine Nouvelle - "Airbus leve le voile sur son aile capable de s'adapter aux conditions meteo"  
<https://www.usinenouvelle.com/article/en-images-airbus-leve-le-voile-sur-son-aile-capable-de-s-adapter-aux-conditions-meteo.N2069337>

November 2022 WirtschaftWoche 48 - "Die Befluglerin"  
<https://www.wiwo.de/my/unternehmen/dienstleister/sabine-klauke-das-ist-die-frau-die-der-klimarevolution-bei-airbus-fluegel-verleihen-soll/28828576.html>

*December 2022* Les Echos - "Avion du futur : ces ailes revolutionnaires que prepare Airbus"  
<https://www.lesechos.fr/industrie-services/air-defense/avion-du-futur-ces-ailes-revolutionnaires-que-prepare-airbus-1892602>

*Teaching* UNIVERSITY EXTERNAL LECTURER  
*Experience*

*Academic Year* ISAE-SUPAERO Toulouse - Loads and Aeroelastics External Lecturer for Aero-  
*2019-2020* nautical Engineering Master students.

*Academic Years* IMT Mines Albi - Aircraft Loads and Aeroelastics External Lecturer for Trans-  
*2021-2023* portation Industry Materials and Advanced Processes Engineering students.

October 5, 2024