

Lorenzo Magnani

MSc Aerospace Engineering



About me

I am an aerospace engineering graduate with a passion for aerodynamics, sport and physics. I am looking for new and stimulating projects and opportunities.

Areas of specialization

- Fluid dynamics
- Experimental aerodynamics

Interests

Fluid Dynamics
Control Theory
Systems Engineering
Theoretical Physics

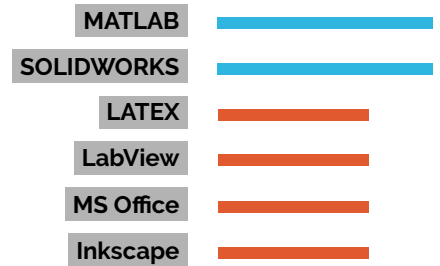
EDUCATION

- | | |
|-----------|--|
| 2020-2023 | MSc Aerospace Engineering
UNIVERSITA' DI BOLOGNA · Forlì, Italy 📍
Thesis: Setup and validation of a pulsed jet for turbulent boundary layer active control.
Language of instruction: English.
Final grade: 105/110. |
| 2016-2020 | BSc Aerospace Engineering
UNIVERSITA' DI BOLOGNA · Forlì, Italy 📍
Thesis: Implementation of a Geiger Counter on a Drone.
Language of instruction: Italian.
Final grade: 92/110. |

INTERPERSONAL SKILLS

- Analytical approach
- Effective in small, focused teams
- Good leadership skills

SOFTWARE PROFICIENCY



PROFESSIONAL EXPERIENCE AND INTERNSHIPS

- | | |
|-----------------------|--|
| Actual | PhD in Aerospace Science and Technology
UNIVERSITÀ DI BOLOGNA · Italy 📍 <ul style="list-style-type: none">- Investigation on skin-friction drag reduction with DBD plasma actuators and riblets on high Reynolds number pipe flows.- Investigation on high Reynolds number pipe flows for convective heat-transfer enhancement. |
| 2024 | Research fellow
UNIVERSITÀ DI BOLOGNA · Italy 📍 <ul style="list-style-type: none">- Test and validation of the experimental setup for the enhancement of convective heat-transfer using pulsed jets in cross flow.- Development and test of plasma actuators active flow control for skin-friction drag reduction. |
| 2023 | Intern and thesis student
PREDAPPIO · Italy 📍
Development of experimental techniques to enhance convective heat-transfer using pulsed jets in cross flow. |
| March 2022–April 2022 | Lecturer
FORLÌ · Italy 📍
Taught aerial navigation, meteorology, principles of air traffic control and logistics at Aeronautical Technical Institute "Francesco Baracca". |
| 2020–2023 | Apprentice Blacksmith
BERTINORO · Italy 📍
Proficient metalworker with experience in welding, drilling and milling. |

PUBLICATIONS AND CONFERENCES

July 2025	Oral presentation ITI XI CONFERENCE ON TURBULENCE · Bertinoro, Italy 📍 Characterization of the transient response of oscillating plasma actuators for turbulent skin-friction control.
November 2025	Oral presentation FLUCOME 2025- 17TH INTERNATIONAL CONFERENCE ON FLUID CONTROL, MEASUREMENTS, AND VISUALISATION · Delft, The Netherlands 📍 Design and characterization of the transient response of oscillating DBD plasma actuators for skin-friction drag control in turbulent pipe flows.
2026	Conference proceeding CHARACTERIZATION OF THE TRANSIENT RESPONSE OF OSCILLATING DBD PLASMA ACTUATORS FOR TURBULENT SKIN-FRICTION CONTROL. · 📍 Magnani, L., Neretti, G., Serpieri, J., Popoli, A., Cristofolini, A., Talamelli, A. and Bellani, G., JOURNAL OF PHYSICS. CONFERENCE SERIES, 3173(1), 1-7
2026	Conference proceeding ACTIVE HEAT-TRANSFER CONTROL BY PULSED JET IN A TURBULENT PIPE FLOW AT HIGH REYNOLDS NUMBERS. · 📍 Magnani, L., Discetti, S., Ianiro, A., Morini, G., Talamelli, A., Rossi, M. and Bellani, G., JOURNAL OF PHYSICS. CONFERENCE SERIES, 3173(1), 1-9

LANGUAGES

Italian	C2	Mother Tongue
English	B2	● ● ● ●
French	A1	● ● ● ●

HOBBIES

2005-2012	Football
2012-2015	Mixed Martial Arts
2015-2018	Padel
2018	Trekking

"I authorize the processing of personal data contained in my curriculum vitae on the basis of Legislative Decree 196/2003 and EU Regulation 2016/679"