

FRANCESCO MAZZEO

Aerospace Engineer

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EDUCATION

PhD in "Industrial and Environmental engineering"

University of Modena and Reggio Emilia

Dec 2021 - Ongoing Modena, IT / Forli, IT

- Department of Engineering "Enzo Ferrari"
- Main research topic: "Study and development of systems and technologies for the Urban Air Mobility"

MSc Double Degree in Aerospace Engineering

KTH-Royal Institute of Technology / University of Bologna

Sept 2019 - Oct 2021 Stockholm, SE / Forli, IT 110/110 e Lode

- Master thesis: "Performance analysis of a small-scale wind turbine at variable pitch and with pitch unbalance"

BSc in Ingegneria Aerospaziale

University of Bologna

Sept 2016 - July 2019 Forli, IT 110/110 e Lode

- Thesis: "Sviluppo di un visualizzatore di dati di telemetria satellitari applicato alla missione ESEO"

Scientific High School

Liceo Scientifico G.Marconi

Sept 2011 - June 2016 Pesaro, IT 100/100 e Lode

EXPERIENCE

Master Thesis in Wind Energy

KTH-Royal Institute of Technology

Jan 2021 - Oct 2021 Stockholm, SE

- Developing my own BEM code in Python
- Performing CFD simulations with ANSYS Fluent
- Carrying out wind tunnel experiments
- Training in a research environment

Aeroelastic analysis of a wing structure

KTH-Royal Institute of Technology

Oct 2020 - Jan 2021 Stockholm, SE

- Aeroelastic analysis of a fixed wing aircraft in a wind tunnel

Numerical simulation of a turbulent jet

Alma Mater Studiorum

Jan 2020 - July 2020 Forli, IT

- Performing LES and DNS simulations in Fortran

PERSONAL SKILLS

Professional Skills

Aerodynamics Wind Tunnel Wind Energy

Turbulence studies Data Analysis CFD

Drones Fluid Dynamics UAM

Soft Skills

Adaptability Team working Hard Worker

Time Management Good Communication

Software and Programming

Microsoft Office

MatLab

Python

ANSYS Fluent

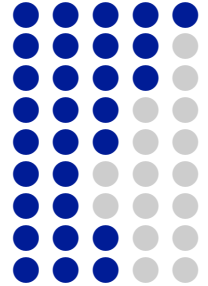
LaTeX

Simulink

SOLIDWORKS

Adobe Premiere Pro CC

Adobe Lightroom



LANGUAGES

Italian (mother tongue)

English (IELTS 7.0)

French



INTERESTS

- Aerodynamics and CFD enthusiast
- Keen on drone technologies and drone piloting
- Fond of video making and video editing
- Sport and travelling addicted

MOST PROUD OF



2020-Erasmus scholarship

Selected for double degree program at KTH-Royal Institute of Technology



FPV Racing drone

Built my own FPV racing drone



2008 - 2019, Italian Competitive Swimmer

Took part at National Swimming Championships in 2015 and 2016

Measurement of the entrainment of an axis-symmetric jet

Alma Mater Studiorum

📅 May 2018 – July 2018

📍 Forlì, IT

- Studying the entrainment of a jet using hot-wire anemometers

OTHER EXPERIENCES

Social Media Marketing

KBM Consultants

📅 19 July 2015 -- 18 August 2015 📍 London, GB

- Erasmus+ experience on Social Media Marketing, Optimization and Management

CERTIFICATIONS

- ENAC Certified UAS pilot: Open Category A1/A3
- Driving License: B/A

REFEREES

Prof. Antonio Segalini

@ KTH-Royal Institute of Technology

✉ segalini@mech.kth.se

📍 Stockholm, SE

🏛 Thesis Supervisor

Prof. Alessandro Talamelli

@ Alma Mater Studiorum

✉ alessandro.talamelli@unibo.it

📍 Forlì, IT

🏛 Thesis/PhD Co-Supervisor

Prof. Francesco Leali

@ University of Modena and Reggio Emilia

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📍 Modena, IT

🏛 PhD Supervisor