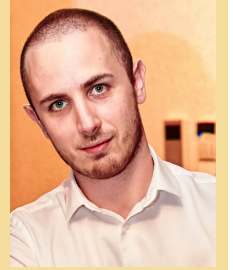


Mattia Giurato, PhD Candidate

Curriculum Vitae

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DOCTORAL RESEARCH

Design, integration and control of multirotor UAV platforms

During my Doctorate I have developed a systematic approach for the design of multirotor UAVs. Moreover I gained experience on the design and tuning of the flight controllers (both position and attitude) for multirotor UAVs using both model based and data driven approaches. In particular I have studied and implemented robust controllers, adaptive controllers and non-linear controllers. Such control laws have been designed, implemented and tested on conventional and unconventional platforms which I designed over the years. I have also worked on the model identification and parameter estimation for the flight dynamics modelling of these platforms which have lead to the design of accurate simulators.

EDUCATION

MAR. 2019 – JUL. 2019	Visiting researcher LAAS CNRS Toulouse, France
NOV. 2016 – ONGOING	Philosophiæ Doctor Aerospace Engineering Politecnico di Milano, Italy
OCT. 2013 – DEC. 2015	Master of Science Automation and Control Engineering Politecnico di Milano, Italy
SEPT. 2010 – OCT. 2013	Bachelor of Science Automation and Control Engineering Politecnico di Milano, Italy

WORK EXPERIENCE

JAN. 2016 – NOV. 2016 (FT)

Department of Aerospace Science and Technologies
Politecnico di Milano, Italy
Research assistant

Title of the project: "Modelling, identification and control of multirotor UAV", supervisor Prof. Marco Lovera

CERTIFICATION

FEB. 2017	Creative Technologies in the Classroom 101 Trainer Arduino
MAR. 2014	Simulink for System and Algorithm Modelling MathWorks Training Services

COMPUTER SKILLS

BEGINNER	Python
INTERMEDIATE	C, C++, PX4, ArduPilot, CATIA, Modelica, Dymola
EXPERT	MATLAB/Simulink, L ^A T _E X, UNIX, SolidWorks, Arduino, Processing, Ultimaker Cura

SKILLS

Communication

Knowledge of two languages (Italian: Mother tongue, English: Fluent). Good attitude with public speaking. Optimal capacity to interact with people of different background and several geographical realities

Management

Leadership, team managing and scheduling, long-term strategy planning

Goal Oriented

I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgement to immediately act based on consensus to achieve goals quickly and efficiently.

Physical Dexterity

Manual manipulation of experimental equipment within the Aerospace System and Control Laboratory (ASCL) have contributed to an enjoyment of working with my hands.

Passionate

I have been interested in engineering and the understand of how the world works from an early age. My education and research have cemented this interest into a passion. I greatly enjoy carrying out control theory applied to the aerospace research with potential practical applications.

INTERESTS & HOBBIES

For years, I have developed a passion about RC Models (planes, helicopters, drones, etc.). Thanks to this passion I have learnt how to make them fly and first of all how to design and build them, and I have also improved my capabilities with hand-crafting. After years spent hands-on with a lot of practical projects (from domotics to 3D printing) I gained determination and patience. In my life I have also practised many sports: basketball, football, swim, boxe, muay-thay, gym. Few years ago I also started to home-brew beer.