



Maicol Laurenza

About me: The candidate is currently a PhD student in Theoretical and Applied Mechanics at Sapienza, University of Rome. The research interests include developing controls in the field of advanced mechatronics for autonomous vehicles, with a focus on autonomous cars and legged locomotion.

● EDUCATION AND TRAINING

01/11/2018 – CURRENT – Rome, Italy

PHD IN THEORETICAL AND APPLIED MECHANICS – Sapienza, University of Rome

The focus of this PhD is the development of control strategies and dynamic models in the autonomous guidance field for different locomotion systems, such as autonomous cars and legged robots.

11/2015 – 26/10/2018 – Rome, Italy

MASTER DEGREE IN MECHANICAL ENGINEERING – Sapienza, University of Rome

- FEM analysis.
- Vehicle dynamics.
- Energy conversion machines.
- Mechanic and thermal measurements.
- Differential geometry.
- Economy.
- Matlab/Simulink.

Thesys: **Sviluppo di un sistema di guida autonoma su vettura di serie**

09/2010 – 11/2015 – Rome, Italy

BACHELOR DEGREE IN MECHANICAL ENGINEERING – Sapienza, University of Rome

- Calculus.
- Numerical algorithms.
- Design of mechanical components.
- CAD and technical drawing, AutoCAD SolidWorks.
- Thermodynamics.
- Energy systems.
- Kinematic analysis of mechanisms.
- Industrial installations.
- Chemistry.
- Physics.
- Matlab.
- Solid mechanics.
- Fluid dynamics.

Thesys: **Teoria di Prandtl per l'ala finita**

● LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Office | Latex Software | MS POWERPOINT | Adobe Illustrator



● **JOB-RELATED SKILLS**

Job-related skills

- Matlab/Simulink and MSC Adams for system modeling
- CAD designer with SolidEdge, SolidWorks
- FEM analysis with Ansys
- Machine learning

● **DRIVING LICENCE**

Driving Licence: B

● **HOBBIES AND INTERESTS**

Other skills

I've always been a good listener and quick learner. I have a great interest in Japanese culture, especially regarding the world of animation and comics. In the free time, I like digital drawing but also do sports such as boxing and hiking.