



# Maicol Laurenza

---

## ● ABOUT ME

---

The candidate is currently an RTT Tenure track researcher at University Niccolò Cusano. 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 – 30/10/2021 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.

Thesis: **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.

Thesis: **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 | C1            | 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

● **ADDITIONAL INFORMATION**

---

**DRIVING LICENCE**

Driving Licence: A

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.

**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