

Researcher Mechatronics Engineer Trento, TN, Italy

Italian

+39 333 15 14 344

mattia.piazza@unitn.it

mattiapiazza

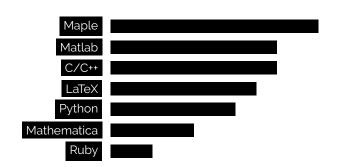
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#### WHO AM I?

I am a passionate, pragmatic and goal-driven mechatronics engineer always looking for personal growth opportunities and challenges. This drove me in my academic choices and allowed me to approach the world of autonomous driving. To pursue my passion, I became a researcher at the University where I had the opportunity to work on optimal control problems and algorithm development for ADAS in collaboration with racing and the industrial world. My multidisciplinary education allows me to address problems both from the physical and theoretical foundation and its technical implementation.

In my work and life, I am always curious, ambitious, openminded and determined to succeed.



#### WORKING EXPERIENCES

Sept. 2021-Present Teaching assistant

**University of Trento** 

Teaching assistant for courses of "Sistemi Meccanici e Modelli" e "Fondamenti di Meccanica" In collaboration with Prof. Mauro Da Lio and Prof. Emiliano Rustighi.

#### Gen. 2021-Present Research grant (Decree n. 205/2020)

Università di Trento

Title: "Solution algorithms comparison for minimum-time optimal control problems for racing

vehicles"

Supervisor: Prof. Francesco Biral.

Jun.-Nov.2020

#### Research scholarship (Decree n. 74/2020)

**University of Trento** 

Research scholarship addressed to recent graduates.

Title: "Minimum Time Manoeuvres of complex vehicle models described with DAE".

Supervisor: Prof. Francesco Biral.

Sept.-Dec. 2019 &

### Tutorship specific areas for mechanics and mechatronics

**University of Trento** 

Frontal lesson, lecture notes and exercises in English for freshmen students of the MSc in Sept.-Dec. 2018

Mechatronics Engineering.

Supervisors: Prof. Francesco Biral e Prof. Enrico Bertolazzi.

Apr.-Jun. 2019

## Video-lectures for the tutorship of mechanics and mechatronics

**University of Trento** 

Development of video-lectures for the University with topic: linear algebra, scientific calculus,

probability/statistics and mechanics.

Supervisors: Prof. Daniele Fontanelli e Prof. Francesco Biral.

Jun.-Sept. 2017 Internship

## Internship in Quality Control department

SIAP s.p.a. gruppo CARRARO

Precision measurements of mechanical components, development of sequential charts, specific

control plans (SPC), CCP, measurements for capability analysis (Cp, Cpk, etc.).

Jun.-Sept. 2013 &

#### Plumber apprentice

DE NARDO ALESSANDRO IMPIANTI TERMOIDRAULICI

Jun.-Sept. 2012 Plumber apprentice during summer season.

**EDUCATION** 

Professional qualification to practice as an engineer Dic. 2020

**University of Trento** 

Industrial Engineer

2017 - 2020 Master of Science degree in Mechatronics Engineering

**University of Trento** 

Curriculum mechanics e mechatronics. MSc offered entirely in English.

Main courses: modeling and simulation of mechatronics systems, dynamic and control of vehicles and robots, mechanical design and machine elements, modeling with finite elements, industrial robotics.

Grade:108/110

2013 - 2017 **E** 

**Bachelor of Science degree in Mechanical Engineering** 

**University of Udine** 

Main courses: Thermodynamics and heat transmission, applied mechanics, fluid-dynamics, Turbomachinery, Mechanics of solids and mechanical design, mechanical technology.

2008 – 2013 Scientific High school diploma

Liceo Scientifico "Michelangelo Grigoletti"

High school diploma with curriculum PNI (National Informatics Plan).

LANGUAGES

**HOBBIES** 

**SPORTS** 

Italian - Native

English - Fluent, C1 level (IELTS)

It might sound oxymoronic, but I am passionate about technology and nature. I build and program small and automated projects with microcontroller and love to spend time in the mountains.

Tam an amateur climber and I practice both alpine ski and ski touring. I also enjoy football and mountain trail

# PRIVACY

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

Trento, 10th March 2022

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