

MATTIA PIAZZA

Researcher
Mechatronics Engineer

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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, open-minded 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 & Sept.-Dec. 2018 **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 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 & Jun.-Sept. 2012 **Plumber apprentice** DE NARDO ALESSANDRO IMPIANTI TERMIDRAULICI
Plumber apprentice during summer season.

EDUCATION

- Dic. 2020 **Professional qualification to practice as an engineer** University of Trento
Industrial Engineer

2017 – 2020	Master of Science degree in Mechatronics Engineering 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	University of Trento
2013 – 2017	Bachelor of Science degree in Mechanical Engineering Main courses: Thermodynamics and heat transmission, applied mechanics, fluid-dynamics, Turbomachinery, Mechanics of solids and mechanical design, mechanical technology.	University of Udine
2008 – 2013	Scientific High school diploma High school diploma with curriculum PNI (National Informatics Plan).	Liceo Scientifico "Michelangelo Grigoletti"

LANGUAGES

Italian - Native
English - Fluent, C1 level (IELTS)

HOBBIES

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.

SPORTS

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

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

