

# 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.

## SOFTWARE AND PROGRAMMING SKILLS



## 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 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.).

## EDUCATION

- Dic. 2020 **Professional qualification to practice as an engineer** 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

**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**

**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, 11th March 2022

A handwritten signature in black ink, appearing to read 'Y. Pizzolo'.