MECHATRONICS ENGINEER

MATTEO VERZELETTI

PERSONAL DATA

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European driving licence: A1, B

GENERAL OVERVIEW

Bachelor's degree in Industrial Automation Engineering, with several years of team working and team leading experience thanks to the Motostudent university project. Currently a Master's degree student in Mechatronics Engineering, with Double Degree thanks to Time Programme.

AREAS OF COMPETENCE

- 3D Modeling (SolidWorks, Fusion 360, nTopology)
- Programming (Java, C, Phython)
- Machine Learning
- Latex text editor
- Working experience using PowerPoint ed Excel
- Good knowledge of Matlab
- Basic knowledge of LabView

SOFT SKILLS

- SELF-MOTIVATION
- LEADERSHIP
- RESPONSIBILITY
- TEAMWORKING
- FLEXIBILITY
- PROBLEM SOLVING
- DECISIVENESS

WORKING EXPERIENCES

DIVISION LEADER — OCT 2018 – JUL 2020

Unibs Motostudent, Brescia

I was chosen as a Division Leader to coordinate a group of colleagues in the development of the Powertrain System and to achieve maximum performance from our prototype. In particular, I was responsible for the exhaust system.

SUMMER SEASONAL WORK — 2015 – 2022

Brescia and Riccione

I started as an animator, and thanks to my experience I became responsible for animation. I improved my skills in interpersonal relationships and in coordinating a team.

DRIVER (RIDER) — MAY 2019 – MAR 2021

Rezzato (BS)

Initially, I managed orders and made deliveries for the Mimosa pizzeria. Later, I performed the same task for a larger company, the Sbaff restaurant.

INTERN — JUL 2017 – AUG 2017

Engineering office Eng. Papa, Rezzato (BS)

I assisted and helped during the design and bureaucracy phases of the studio.

EDUCATION

Master's Double Degree Programme
Instituto Superior Técnico (IST), Lisboa 2023–o.g.
Double Degree program in Mechanical Systems Engineering
Thesis title: Hybrid Ankle Exoskeleton using Electrical Stimulation and Mechanical Actuation

Master's degree in Mechatronics Engineering
Università degli Studi di Trento sep 2022 – on going
In progress

Bachelor's degree in Industrial Automation Engineering
Università degli Studi di Brescia sep 2018 – may 2022
Regularly graduated with vote 96/110.
Thesis title: Design and dimensioning of an anthropomorphic robotic arm.

LANGUAGES

- English C1
- Spanish A2
- Portuguese B1

HOBBIES

- Track & Field
- Football
- Motorsport
- Travels
- Reading books
- Robotics
- Board games
- Surfing
- Photography

PROJECTS

SOLVER – FINALIST MAR 2025
TecStorm – Técnico innovation Center (Lisboa)
I participated at the finals of the Portuguese National competition TecStorm, with a team of 3 engineers, reaching the second place. It's an hackathon aimed to the creation of a startup in three working days. Our startup (EnviroSync) was in the field of Sustainable Smart Construction. Our goal is to optimize energy efficiency using a system of multiple devices: thanks to several sensors we can collect data (i.e. air temperature, humidity, vibrations,...) that are constantly analyzed by a trained AI, able to send reports when detecting problems. Moreover, we also developed a website (online platform) where the user can access to live data and to the history of recordings, but also to choose between other functions, like instantly generating a report.

SOLVER – FINALIST APR 2024
TecStorm – Fundação Champalimaud (Lisboa)
I participated at the finals of the Portuguese National competition TecStorm, with a team of 4 engineers. Our startup was in the field of Data-Driven Sustainable Mobility Solutions and we developed an app (ParkMe) able to predict the number of free slots in a parking, based on AI algorithms, in a certain area and at a certain time, both decided by the user, and allowing them to book it if needed. Moreover, we developed the Business Model, enriching me with new knowledge in the economic field, too.

SOLVER FEB 2023 – MAY 2023
ProtoChallenghe by HIT – HubInnovationTrentino (NTP NanoTechProjects, Rovereto)
I worked with a team of six students from the University of Trento in collaboration with the company NTP Nano Tech Projects s.r.l. The goal was to re-design some components (to reduced weight and to try Additive Manufacturing techniques of realization) of the NED-Digital Pathology machine, as well as to study an alternative configuration to fix internal issues.