

Tommaso Canova

Padua, Italy, IT

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Education

University of Trento

MSc in Artificial Intelligence Systems

Trento, Italy

Sept 2022 - Present

- **Relevant coursework:** Artificial Intelligence, Machine Learning, Digital Image and Video Processing

University of Trento

BSc in Computer and Electronics Engineering

Trento, Italy

Sept 2019 - Sept 2022

- GPA: 3.9 / 4.0, Grade: 110 Cum Laude / 110
- **Thesis:** Firmware development and Graphical User Interface design for a Stepper Motor test bench prototype (**thesis**)
- **Relevant coursework:** Embedded Systems, Formula SAE laboratory, Advanced programming, PCB design and prototyping

Work Experience

E-Agle Trento Racing Team (Formula Student)

Trento, Italy

Embedded Software Engineer and Team Leader

Oct 2021 - Present

- Developed the **BMS** (Battery Management System) firmware of the low voltage battery for **Fenice**, the latest electric vehicle of the team. The system supplies all the **low voltage** boards, the lights and the car's cooling system.
- **Leading** a group of 70 students among engineers and economists towards the building of a new electric car.
- **Skills:** Low level programming with C, STM32 MCUs, Hardware debugging, KiCAD, Teamwork, Leadership

Intern

Rovereto, Italy

ProM Facility (Trentino Sviluppo)

Sept 2021 - June 2022

- Developed the firmware and the Graphical User Interface (**GUI**) for a stepper motor test bench prototype, based on **STM32** architecture
- Developed a part of the firmware for a calibration system of a medical machine used by a proton therapy company
- **Skills:** Python, Multi-threading, Data manipulation, C, STM32

Computer Technician Specialist

Valencia, Spain

App Informatica

Sept 2019 - Oct 2019

- The internship was offered by an European work program which I've been selected for. My main task related to the assembling from scratch or update clients computers, also fixing hardware problems

Projects

Stepper motor test bench

Rovereteo, IT

ProM Facility

March 2022 - July 2022

- A Step Motor testbench prototype with two STM32 based units and a fully custom Python GUI. Repository **here**.

Solar Azimuth and eLevation Motorized lOcator (SALMO)

Rovereteo, IT

University of Trento

March 2022 - July 2022

- A custom PCB used for driving a tracking solar panel system, using GPS location and a MPPT algorithm to maximise the incident power. Repository **here**

Skills

Programming C, Python (DearPyGui, Pandas, Matplotlib), C++, Java

Miscellaneous Linux, Git, Latex, Markdown

Soft Skills Leadership, Time Management, Teamwork, Problem-solving

Achievements

2018/2019 **Winner of the Italian rugby U18 championship**, Petrarca Rugby team

Italy

2016/2017 **Winner of the Italian rugby U18 championship**, Petrarca Rugby team

Italy

Languages

English Professional proficiency

Italian Native proficiency