# MATTEO DI IORIO

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## PROFILE SUMMARY

Computer Engineering student at University of Bologna with a passion for motorsport. Explored all areas of Software Engineering, from Embedded to Full-Stack Web Development and Mobile Development.

## EXPERIENCE

**Embedded Software Engineer at UniBo Motorsport (HY)**                     **Mar 2024 — Present**

- Co-developing a Battery Management System project in C++ for STM32 Cortex M4 MCUs and Analog Devices LTC series of battery monitors.
- Ensured code quality and maintainability in a RTOS environment.
- Introduced Doxygen documentation and advanced project management tools.
- Coding the main ECU software in LabVIEW RT and FPGA for the SPARK ECU from Alma Automotive for sensor acquisition and CAN communication.
- Embedded Linux knowledge applied to low-level ECU debugging.

**Electronics Division Manager at UniBo Motorsport (HY)**                     **Sep 2024 — Present**

- Coordinating all division members in the Electronics Division for the Hybrid Vehicle.
- Responsible for the vehicle's wiring harness' design, manufacturing and maintenance.
- Managing LabVIEW ECU code for the SPARK ECU from Alma Automotive, ensuring stable CAN communication and reliable sensor acquisition.
- Responsible for the implementation of control strategies via CAN for the inverters.
- Ensuring PCB design meets deadlines for 3 separate boards (Brake System Plausibility Device, Dashboard, Relay Box).
- Analyzing power consumption for the Low Voltage System.

## EDUCATION

**High School Diploma at Liceo Scientifico Primo Levi - Scienze Applicate**          **2017 — 2022**

- Graduated with 95/100.

**Bachelor's Degree in Computer Engineering at University of Bologna**          **2022 — Present**

- Currently enrolled.

## SKILLS

- Soft skills: autonomy, leadership, teamwork, adaptability, problem solving, critical thinking, abstract thinking.
- Code: C, C++, Rust, LabVIEW, Python, Go, MATLAB, Simulink, Java JS/TS, CSS React, React Native.
- Tools: Git, JetBrains IDEs, Eclipse-based IDEs, Jira, Miro, Bitbucket.
- Driving license.

## LANGUAGES

**Italian**                                                              **Native Language**

**English**                                                              **B2 to C1**