

RESUME- EUROPEAN FORMAT



PERSONAL INFORMATION

Name Federico Omicini

E-mail address federico.omicini@gmail.com

Nationality Italian

Date of birth 09/04/2000

WORKING EXPERIENCE

From November 2025 – in progress

Name and type of Institution

Description

PhD student

University of Bologna (Viale Risorgimento 2, Bologna)

Automotive engineering for intelligent mobility

• From November 2024 – October 2025

Junior Design engineer

• Name and type of Institution

Aliant Ultralight Battery (Via Patarini 15 Imola, BO)

• Description

Design of mechanical and electrical components for lithium-ion batteries mainly used for traction in heavy duty applications. Using program such as Solidworks, ANSYS, Solidworks Electrical.

• From September 2023 – to November 2024

C-Powertrain division member

• Name and type of Institution

Unibo Motorsport Formula SAE team

• Description

Installation of the engine at the test cell (ECU code debug, data analysis and calibration using INCA). Development of ECU code using LabVIEW and scripts using MATLAB.

• From October 2023 – to March 2023

Powerunit division member

• Name and type of Institution

MoRe Modena Racing Hybrid (Via P. Vivarelli 10, Modena)

• Description

Simulation with the aim of optimizing battery consumption during an endurance race with MATLAB and telemetry analysis using MoTec.

• From February 2022 – to March 2022

Student Internship

• Name and type of Institution

Studio Tecnico Cavina s.r.l. (Via Emilia 7 Imola, BO)

• Description

Design and 3D modeling of automatic machines using SolidWorks

• From September 2022 – to October 2022

Student Internship

• Name and type of Institution

Autohaus Foti (Beeskowdamm 20 Berlin, Germany)

• Description

I spent a month in Berlin during my fifth year of high school; there I worked in a garage and performed some small repair and overhaul of mechanical components and vehicles

EDUCATION

• From September 2022 to October 2024

Master's degree in Advance Automotive Engineering (curriculum: Advanced Powertrain)

Thesis title: Development implementation and calibration of both low-level and high-level parts of a single-cylinder engine control strategy for an electric hybrid, single-seater car;

• Name and type of Institution

Motorvehicle University of Emilia-Romagna, Alma Mater Studiorum - Università di Bologna, Industrial Engineering Department (Viale del Risorgimento 2 Bologna)

• Final mark

110 cum laude/110

• From September 2019 to October 2022 • Name and type of Institution • Final mark/Grade Point Average	Bachelor's degree in mechanical engineering Thesis title: Development and Evaluation of a GT-Power Model of a Turbocharged Spark-Ignition Direct-Injection Engine Fueled with Hydrogen University of Bologna (Via Montaspro 97, Forlì) 110/110
• From September 2016 to October 2019 • Name and type of Institution • Final mark/Grade Point Average	High school diploma Technical school Francesco Alberghetti - Imola 100/100
PERSONAL SKILLS	
NATIVE-SPEAKER LANGUAGE	Italian
OTHER LANGUAGES KNOWN	
• Reading capabilities • Writing capabilities • Speaking capabilities	English B2 B2 B2
INTERPERSONAL SKILLS	Able to cooperate in team working, giving my own contribution to common projects; able to set good relationships with colleagues and team-mates to achieve professional goals; able to solve problems in a rational and peaceful way, taking care of colleagues' wealth and professional results. Skills acquired thanks to team projects done at the universities such as the FSAE project and to sport activities.
ORGANIZING SKILLS	Able to coordinate personal work and effort of members of a team while doing a team project, able to elaborate strategies to pursue for planned objectives. Skills acquired thanks to group projects done at the universities.
TECHNICAL SKILLS	Known softwares: MatLab, Simulink, GT-Suite, Ansys (FEM), Office apps (Word, Excel, Power Point), AutoCAD, SolidWorks (mechanical and electrical), MoTec, LABVIEW.
DRIVING LICENSES	AM, B, A3