

RESUME- EUROPEAN FORMAT



PERSONAL INFORMATION

Name	Federico Omicini
Address	Via Raggi 51, Imola (BO)
E-mail address	federico.omicini@gmail.com
Nationality	Italian
Date of birth	09/04/2000

WORKING EXPERIENCE

From November 2025 – in progress	PhD student University of Bologna (Viale Risorgimento 2, Bologna) Automotive engineering for intelligent mobility
• From November 2024 – October 2025	Junior Design engineer Aliant Ultralight Battery (Via Patarini 15 Imola, BO) Design of mechanical and electrical components for lithium-ion batteries mainly used for traction in heavy duty applications. Using program such as Solidworks, ANSYS, Solidoworks Electrical.
• From September 2023 – to November 2024	C-Powertrain division member Unibo Motorsport Formula SAE team 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 MoRe Modena Racing Hybrid (Via P. Vivarelli 10, Modena) 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 Studio Tecnico Cavina s.r.l. (Via Emilia 7 Imola, BO) Design and 3D modeling of automatic machines using SolidWorks
• From September 2022 – to October 2022	Student Internship Autohaus Foti (Beeskowdamm 20 Berlin, Germany) 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; Motorvehicle University of Emilia-Romagna, Alma Mater Studiorum - Università di Bologna, Industrial Engineering Department (Viale del Risorgimento 2 Bologna) 110 cum laude/110
• Name and type of Institution	
• Final mark	

<ul style="list-style-type: none"> From September 2019 to October 2022 <ul style="list-style-type: none"> Name and type of Institution Final mark/Grade Point Average 	<p>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</p>
<ul style="list-style-type: none"> From September 2016 to October 2019 <ul style="list-style-type: none"> Name and type of Institution Final mark/Grade Point Average 	<p>High school diploma Technical school Francesco Alberghetti - Imola 100/100</p>
PERSONAL SKILLS	
NATIVE-SPEAKER LANGUAGE	Italian
OTHER LANGUAGES KNOWN	English
<ul style="list-style-type: none"> Reading capabilities Writing capabilities Speaking capabilities 	B2 B2 B2
INTERPERSONAL SKILLS	<p>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.</p>
ORGANIZING SKILLS	<p>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.</p>
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
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