

# RESUME- EUROPEAN FORMAT



## PERSONAL INFORMATION

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

## WORKING EXPERIENCE

- From November 2025 – in progress  
Name and type of Institution **PhD student**  
Description University of Bologna (Viale Risorgimento 2, Bologna)  
Automotive engineering for intelligent mobility
- From November 2024 – October 2025  
Name and type of Institution Junior Design engineer  
Description 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, Solidworks Electrical.
  - From September 2023 – to November 2024  
Name and type of Institution C-Powertrain division member  
Description 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  
Name and type of Institution Powerunit division member  
Description 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  
Name and type of Institution Student Internship  
Description 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  
Name and type of Institution Student Internship  
Description 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  
Name and type of Institution 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)  
Final mark 110 cum laude/110

<ul style="list-style-type: none"> <li>• From September 2019 to October 2022</li> <li>• Name and type of Institution</li> <li>• Final mark/Grade Point Average</li> </ul>	<p>Bachelor's degree in mechanical engineering</p> <p>Thesis title: Development and Evaluation of a GT-Power Model of a Turbocharged Spark-Ignition Direct-Injection Engine Fueled with Hydrogen</p> <p>University of Bologna (Via Montaspro 97, Forlì)</p> <p>110/110</p>
<ul style="list-style-type: none"> <li>• From September 2016 to October 2019</li> <li>• Name and type of Institution</li> <li>• Final mark/Grade Point Average</li> </ul>	<p>High school diploma</p> <p>Technical school Francesco Alberghetti - Imola</p> <p>100/100</p>
<b>PERSONAL SKILLS</b>	
NATIVE-SPEAKER LANGUAGE	<b>Italian</b>
OTHER LANGUAGES KNOWN	
<ul style="list-style-type: none"> <li>• Reading capabilities</li> <li>• Writing capabilities</li> <li>• Speaking capabilities</li> </ul>	<p><b>English</b></p> <p>B2</p> <p>B2</p> <p>B2</p>
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