



Matteo Piunti  
Automotive Engineer

Ph. D. student in Automotive for Intelligent Mobility at the Department of Industrial Engineering (DIN) of the University of Bologna. Graduated in Vehicle engineering, Master's degree in Advanced Automotive Engineering. Experience with experimental activities, engine calibration on dyno test benches and data analysis on track.

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Experience

Bologna Oct 2021 - Oct 2022	<ul style="list-style-type: none"><li>Formula SAE member <b>Unibo Motorsport</b> Fuel tank design, Air intake study and design. Design from zero up to the production of the fuel tank to comply with the restraints of the newly developed carbon tub, it has been realized fully in aluminum. Study of a ram air intake to reduce the pressure drop caused by the filter due to the small area available of the previous configuration.</li></ul>
Casalmaggiore Oct 2022 - Oct 2023	<ul style="list-style-type: none"><li>Internship - Testing Division <b>AutotecnicaMotori</b><ul style="list-style-type: none"><li>Master's thesis: Development and Testing of a Software for Engine data Analysis and fault detection, for track support during Formula 4 Championship. The software aims to simplify the data analysis during track events with up to 50 cars, filtering the data to allow the final user to have a clearer view of the possible problems, to do that interact directly with the Magneti Marelli software Wintax used on the F4 cars that are all equipped with the same brand ECU. The software performs data analysis and detect any possible issue related to the engine unit, during the final process of development it has been tested at the circuit Ricardo Tormo, and during the Italian F4 championship.</li><li>Experimental activities and calibration at engine dyno test benches</li><li>Track support and data analysis during multiple F4 championships around Europe</li></ul></li></ul>
Nov 2023 - Present	<ul style="list-style-type: none"><li>Ph.D. in AUTOMOTIVE FOR INTELLIGENT MOBILITY <b>ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA and FERRARI S.P.A. - GESTIONE SPORTIVA</b> Development of tools and models for hybrid power unit simulation</li></ul>

Education

Fermo 2012 - 2017	<ul style="list-style-type: none"><li>Diploma di Scuola Superiore in Trasporti e Logistica <b>Istituto Tecnico Industriale I.T.T. "G. E M. MONTANI" Fermo</b></li></ul>
Modena Sep 2017 - Oct 2020	<ul style="list-style-type: none"><li>Laurea in Ingegneria del Veicolo <b>Università degli Studi di MODENA e REGGIO EMILIA - MODENA</b> 102/110</li></ul>
Modena - Bologna Sep 2020 - Apr 2023	<ul style="list-style-type: none"><li>Master Degree in Advanced Automotive Engineering <b>Motorvehicle University of Emilia-Romagna - MUNER</b> With specialization in the Curriculum of Advanced Powertrain that provides the core competences related to high performance vehicle powertrain systems. 110/110 cum Laude</li></ul>
AUTOMOTIVE FOR INTELLIGENT MOBILITY Nov 2023 - Present	<ul style="list-style-type: none"><li>Ph.D. <b>ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA and FERRARI S.P.A. - GESTIONE SPORTIVA</b></li></ul>

Skills

- Problem-Solving
- Teamwork
- Knowledge of MATLAB and SIMULINK
- Knowledge of SOLIDWORKS
- Knowledge of Siemens NX
- Knowledge of ANSYS
- Knowledge of WINTAX - Magneti Marelli
- Knowledge of SYSMA - Mgneti Marelli
- Minor knowledge of Bosch - Windarab
- On track data analysis
- Knowledge of Matlab App Designer

Languages

**English**  
Advanced. B2

**Italian**  
Native

Projects

- Software for Data analysis on track**
- Software developed using Matlab/App Designer
  - Able to interact directly with Wintax software
  - Filter and Analyze data to find major problems of the engines on track
  - Developed for Abarth 414-F4 engine used in F4 series
- Mechanical Vibrations**
- Suspension optimization of a vehicle travelling over traffic bumps
  - Development of a simplified model of a V8 internal combustion engine and analysis of the vibration forces originating from the engine and transmitted from the mounts to the chassis
  - Investigation of the effects of the axial speed on the dynamics of a belt, for Power belt transmission
- Advanced Combustion Systems** - "OPTIMIZATION OF A HIGH BMEP TURBOCHARGED GDI INTERNAL COMBUSTION SERIES ENGINE"
- Applied Automatic Controls** - "LAUNCH CONTROL 4WD"
- Chassis and Body Design and Manufacturing** - "AXLE BRACKETS OPTIMIZATION"
- Electric Drives** - "DC/DC DRIVE SYSTEM"
- Electric Drivelines** - "HYBRID SYSTEM DESIGN FOR A LAMBORGHINI HURACAN"
- Manufacturing and assembly technologies-science and technology of metallic and composite materials** -"ALUMINUM ALLLOYS: ADDITIVE MANUFACTURING OR CASTING?"