

DAVIDE BASSANI RESUME



PERSONAL INFORMATION

Name and surname

DAVIDE BASSANI

Address

25/A, VIA PAGNANA, 31030, CASTELLO DI GODEGO (TV), ITALIA

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davide.bassani.1102@gmail.com

Nationality

Italian

Date of birth

11/02/2000

WORKING EXPERIENCE

• From 01/12/2025 (on-going)

- Name and address of the company
- Type of job
- Job description

PhD researcher in Automobili Lamborghini R&D engine department

Automobili Lamborghini S.p.A., Via Modena 12, 40019, Sant'Agata Bolognese (BO), Italy

PhD research

Development of Simulink-based engine control strategies derived from Bosch MS-6 ECU manual, for the Lamborghini Temerario GT3 engine. Development of Simulink-based environment for co-simulation of engine real-time GT-SUITE-based models to estimate track performances. Detailed engine 3-D thermal analysis in different engine operating point conditions.

• From 01/11/2024 to 30/11/2025

- Name and address of the company
- Type of job
- Job description

PhD researcher in Automobili Lamborghini SC

Automobili Lamborghini S.p.A., Via Modena 12, 40019, Sant'Agata Bolognese (BO), Italy

PhD research

Development of detailed and real-time engine models of the Lamborghini LMDh SC63 racing vehicle in GT-SUITE environment. Model development and optimization based on test-bench data of brake torque, indicated torque, main combustion indexes (MFB10, MFB50, MFB90), manifold pressures, turbocharger speed, throttle valve opening, waste-gate valve opening, fuel consumption, lambda values. Validation performed in steady-state operating conditions and in transients, considering track-acquired data

• From 01/11/2024 (on-going)

- Description

Speaker at international congresses

Participation at international congresses as speaker:

- 29th Small Powertrains and Energy Systems Technology Conference (SETC), 10-13 November 2025, Florence, Italy ([presentation](#) SAE technical paper 2025-32-0045)

LIST OF PUBLICATIONS

• From 01/11/2024 (on-going)

Brusa, A., Fabbri, P., Shethia, F., Bassani, D. et al., "Design, Optimization and Calibration of a Single-Cylinder, Motorcycle Engine for Integration into a Novel Formula SAE Electric Hybrid Powertrain," SAE Technical Paper 2025-32-0045, 2025, doi:10.4271/2025-32-0045.

EDUCATION

- **From 01/11/2024 (on-going)**

- Name and type of institution

- Research activity

PhD in Automotive Engineering for Intelligent Mobility – Curriculum 2, Energy systems, Powertrains and Vehicle Performance

Alma Mater Studiorum – University of Bologna, Faculty of Engineering, Viale del Risorgimento 2, Bologna, 40136, Italy

Research on control-oriented engine modeling for real-time co-simulations, research on innovative hybrid control strategies for hybrid racing vehicles and formula-student-type racing vehicles

- **From 19/09/2022 to 17/10/2024**

- Name and type of institution

- Main subjects

- Title achieved

- Final mark

Master's degree in Advanced Automotive Engineering

MUNER – Motorvehicle University of Emilia Romagna

Materials and manufacturing technologies for automotive sector, vehicle design, mechanical vibration, electronic systems and automatic controls, ICEs, powertrain testing, calibration and homologation, modeling and simulations of ICEs and hybrid propulsion systems, electric drives and propulsion systems, battery energy storage systems

Thesis title: Control-oriented modeling of a light e-boosted, high performance, spark-ignition engine.

Master's degree Doctor in Advanced Automotive Engineering

110 cum Laude

- **From 29/09/2019 to 20/09/2022**

- Name and type of institution

- Main subjects

- Title achieved

- Final mark

Bachelor's degree in Mechanical Engineering

University of Padua, Faculty of Engineering, Via Venezia 1, 35131, Padova

Machine Mechanics, Hydraulics, Thermodynamics, Machine Design, Hydraulic Machines, Metallurgy, Electrotechnics, Industrial plants, Working Technologies.

Thesis title: Simulation model of a steam engine

Bachelor's degree Doctor in Mechanical Engineering

110 cum Laude

- **From 2014 to 2019**

- Name and type of institution

- Title achieved

- Final mark

Scientific High School

Liceo Ginnasio Statale Giorgione, Via G. Verdi 25, 31033, Castelfranco Veneto (TV)

Scientific High School diploma

100 cum Laude

PERSONAL SKILLS

NATIVE-SPEAKER LANGUAGE

ITALIAN

OTHER LANGUAGES KNOWN

ENGLISH – C1 LEVEL (IELTS CERTIFICATE)

- Reading
- Writing
- Speaking

Excellent
Excellent
Excellent

RELATIONSHIP SKILLS

Ability to work in a team while making a personal contribution to the achievement of shared projects; ability to communicate effectively and establish positive relationships with group members in order to collaborate towards predefined objectives; ability to resolve conflicts peacefully, while seeking to preserve the outcomes of the work undertaken and the well-being of colleagues. These skills were developed through group work and projects carried out during university courses, a communication and soft skills programme offered by the University of Padua, as well as sports and volunteering activities.

ORGANIZING SKILLS

Ability to subdivide tasks within a working group for the completion of a project, ability to plan the working steps required to achieve predefined objectives (e.g. using Gantt diagrams). These skills were developed through group works and projects carried out during university courses, as well as volunteering activities

TECHNICAL SKILLS

Applications known:

Matlab, Simulink (Advanced user)
GT-Suite, GEM3D (Advanced user)
Ansys (Basic user)
AutoCAD (Advanced user)
SolidWorks (Basic user)
Inventor (Basic user)
Python (Basic user)
Microsoft Office (Advanced user)

DRIVING LICENSES

A3, B

SUBSTITUTIVE DECLARATIONS OF CERTIFICATIONS
(Art. 46 D.P.R. n. 445/00)

SUBSTITUTIVE DECLARATIONS OF THE DEED OF NOTORIETY
(Art. 47 D.P.R. n. 445/00)

The undersigned Bassani Davide, C.F. BSSDVD00B11C111Z, born in Castelfranco Veneto (TV), Italy on 11/02/2000 and residing in Castello di Godego (TV), male, for this purpose and aware of criminal sanctions, in the case of untruthful declarations, training or use of false acts, referred to in art. 76 of D.P.R. 445 of 28 December 2000

STATES

that the personal data, statuses, personal qualities, information and titles contained and detailed in this Curriculum correspond to the truth and to be in possession of all the titles reported in it.

Bologna, 08/07/2026

Davide Bassani



This declaration does not require signature authentication if, pursuant to art. 38, D.P.R. 445/00, is signed and sent together with the photocopy, not authenticated of an identity document of the declarant, to the competent office.