

CURRICULUM VITAE

Prof. Enrico Mattarelli

Updated on May 31, 2024

NAME, SURNAME: ENRICO, MATTARELLI

Titles: Master Degree in Mechanical Engineering obtained on 15/7/1992 at the University of Bologna. Title of PhD in Machine Engineering, Polytechnic of Bari, VIII Cycle, achieved in 1996

Previous Job Positions: Researcher at the University of Modena from May 1, 1996 to October 31, 2001; associate professor at the University of Modena and Reggio Emilia from November 1, 2001 to August 31, 2022

Present Position: Full Professor of Fluid Machines from September 1, 2022 at the Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia

Charges: From the A.Y. 2019-2020 until the A.Y. 2022-2023 he was President of the board of the Study Course in Vehicle Engineering, Department of Engineering “Enzo Ferrari” (currently simple member); member of the board of the INTERMECH MO-RE Center; member of the teaching body of the International Inter-University Doctorate Course “AUTOMOTIVE ENGINEERING FOR INTELLIGENT MOBILITY”

MAIN DIDACTIC ACTIVITIES

- From the A.Y 2002-2003, teacher of the courses on Internal Combustion Engines for the Master Degree students in Vehicle Engineering and in Advanced Automotive Engineering (the last course is taught in English)
- From the A.Y 2018-2019, teacher of the course of Fluid Machines, for the student of the Bachelor Degree in Mechanical Engineering
- Tutor of more than 150 Master degree theses in Vehicle Engineering; from 2018, tutor of 6 Ph.D students.
- From 2005, Faculty advisor for the Formula SAE team of the University of Modena and Reggio Emilia

SCIENTIFIC ACTIVITY

The research activity has been almost entirely dedicated to the theoretical and experimental study of the thermo-fluid dynamic phenomena that occur in internal combustion engines. Particular attention was paid to the study of innovative engine concepts, hybrid propulsion systems and alternative fuels, with particular reference to Hydrogen. He is the author of around one hundred scientific articles, presented at national and international conferences or published in international journals with referees.

The Scopus H-Index, as of 05/31/2024, is equal to 24

He has worked on projects in collaboration with many companies in the Automotive sector such as: Ferrari, Lamborghini, Maserati, Ducati, General Motors, AVL, Lombardini/Kohler Engines, Motori Minarelli, CMD, Malossi

Since March 2024 he is the scientific director of a regional project lasting 30 months, aimed at the construction and experimental characterization of a two-stroke engine powered by hydrogen (H₂Motor). It also collaborates on a second regional project which aims to develop a hybrid engine for motorcycles (HybridTec)