



Roberto Strada

Curriculum vitae

- Born in Vimercate, province of Monza e Brianza (MB), Italy, in 1969.
- Resident in Agrate Brianza, province of Monza e Brianza (MB), Italy.
- Master degree cum laude in *Mechanical Engineering* at Politecnico di Milano in 1994.
- *Licensed as a Professional Engineer* in 1994 at Politecnico di Milano.
- From November 1994 to January 1996, military service as air force officer for weather forecasting.
- From January to June 1996 employed in the technical department of the company *Balestrini S.p.A.*, manufacturer of machines for wood working.
- From July 1996 to May 1997 employed in the production and quality division of *Pirelli Cables S.p.A.* for the control and optimization of the production processes.
- In 2001 *PhD in Applied Mechanics* at Politecnico di Milano.
- 2001-2002 *Research Fellow* at the Engineering Department of the Università degli Studi di Bergamo.
- 2002-present, *Assistant Professor of Applied Mechanics* at the School of Engineering of the Università degli Studi di Bergamo, Department of Engineering and Applied Sciences.
- 2006-2016, *member of the Steering Committee* of the PhD School in Mechatronics, Information Technology, New Technologies and Matematical Methods of the Università degli Studi di Bergamo.
- 2007-2009, *member of the Board of Directors* of the Università degli Studi di Bergamo.
- 2010-2018, in charge of *vocational guidance for the Mechanical Engineering course*.

- 2011, *member of the Committee* charged with writing the new statute of the Università degli Studi di Bergamo.
- 2014-2017, *member of the Steering Committee* of the PhD in Engineering and Applied Sciences of the Università degli Studi di Bergamo.
- For the three-year periods 2013/2015 and 2016/2018, *member of the Board for Discipline* of Assistant Professors of Università degli Studi di Bergamo.
- 2019-present in charge of *traineeships and placement for the Department of Engineering and Applied Sciences*.

The teaching activities begun in 2000 and concern several topics typical of *Applied Mechanics, Vibrations, Driving systems* and *Mechatronics*.

In particular, courses taught as primary or assistant teacher, both in bachelor and master degree courses, are: *Fundamental of Mechanics, Applied Mechanics, Mechanical systems engineering, Mechatronic systems, Mechanical vibrations, Pneumatics, Drives for mechanical systems*.

At present, within the School of Engineering of Università degli Studi di Bergamo, in charge of the following courses:

- *Mechanical Systems Engineering* - Bachelor degree in Mechanical Engineering.
- *Mechanisms and Transmissions* - Bachelor/Master degree in Mechanical Engineering.
- *Functional Design of Mechatronic Systems* - Master degrees in Mechanical Engineering and in Smart Technology Engineering.

Moreover, from 2004 to 2008, teacher of the course *Teaching methodology for Mechanics and Applied Mechanics* at the *Inter university postgraduate school for high-school teachers*.

Between the research activities, the dynamic analysis of systems and components driven by hydraulic actuators and the study of the dynamic characteristics of driving systems for Mechatronics are highlighted.

Other activities developed during the years include:

Organizer, at the Faculty of Engineering of the Università degli Studi di Bergamo during 2002-2003 academic year, of a series of seminars on *Mechanics for Textile Industry*, in cooperation with PROMATECH S.p.A.

Assistant teacher of *Numerical methods for the study of multibody systems* in the specialization course *From drawing to finite element modeling of structural components*, II Edition June 2003, III Edition July 2004, IV Edition June 2005, at the Faculty of Engineering of Università degli Studi di Bergamo.

Teacher of the specialization course *Electronics in hydraulics*, at ASSOFLUID (Italian association of manufacturing and trading companies in fluid power equipment and components), November 2004.

Teacher of the specialization course *Mechatronic design* in the *NETFORMEC II* project, funded by the European Union, at the Università degli Studi di Bergamo, February 2005.

Teacher of the specialization course: *Automatic machines for manufacturing and packaging industry: methodologies for the choice and the synthesis of the driving systems (M.A.S.A.)* at Politecnico di Milano - 2nd edition, 2007.

Tutor of the research project (2008-2009) *MAXUV - Methodologies for Active Control of Sound and Vibration*, in cooperation with INTELLIMECH, consortium of private companies for interdisciplinary research in Mechatronics.

Member of the organizing committee of 9th *International Workshop on Research and Education in Mechatronics*, Bergamo il September 18th - 19th, 2008.

Co-author of the lecture notes: V. Lorenzi, R. Riva, M. Camposaragna, R. Strada, B. Zappa *Numerical methods for the study of multibody systems* for the specialization course *From drawing to finite element modeling of structural components*.

Co-author of the lecture notes: G. Ruggieri, G. Cusimano, P. Righettini, R. Strada *Drives for mechanical systems*.

Co-author of the lecture notes: P. Righettini, R. Strada *Step motor drives*.

Dalmine, September 5th 2019

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