PERSONAL INFORMATION

Massimiliana CARELLO

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massimiliana.carello@polito.it

Sex Female Date of birth 10/08/1964 Nationality Italy

JOB POSITION
From 1994 – to now

Assistant Professor at the Mechanical and Aerospace Engineering Department of the Politecnico of Torino (S.S.D. ING/IND-13 – Applied Mechanics).
From the 2011/2012 to now, she gives course of Chassis Design for Master Automotive Engineer.
From the 1998/99 to 2011/2013, she has given courses of Applied Mechanics and Pneumatic Systems.
From the 1993/94 to 2015/16 she has given practice lessons of: Applied Mechanics, Pneumatic Systems, Applied Mechanics to biomedical systems.

EDUCATION AND TRAINING

From 1990 - to 1994

PhD Doctor's degree in Applied Mechanics obtained the 6/7/1994 with a final dissertation titled "Geometry influence's on flow in non conventional pneumatic valves".

From 1983 - to 1990

Master Degree in Mechanical Engineering obtained at the Politecnico of Torino the 19/07/1990.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING	SPEAKING	WRITING
English	Good level	Good level	Good level
French	Good level	Good level	Good level

Communication skills

Ability to work in team, ability to communicate and listen to the others.

Organisational / managerial skills

- From 2012 she is the Responsible of the Research Group of "Innovative Electric and Hybrid Vehicle" at the Mechanical and Aerospace Engineering Department of the Politecnico of Torino and 10 engineers, research assistants and PhD students compose her group.
- (http://www.dimeas.polito.it/la_ricerca/gruppi/veicoli_innovativi_elettrici_e_ibridi)
- Each year she follow 10-15 students to develop the bachelor or master degree thesis.
- She has followed three phD students that have finished.
- Now she is the tutor for two phD student in Mechanical field.
- From the 2007 she is the Faculty Advisor, for the Politecnico di Torino, of the Team H_2politO (www.polito.it/h2polito) that design, build and test vehicles prototype to partecipe at the Shell Eco-marathon (low consumption competition, where the winner is the vehicle that has low consumption). The Team now is composed by 80 students of different engineering fields (Mechanical, Aerospace, Automotive, Material, Management, Mechatronic, Electronic, Informatic, etc). With the Team H_2politO she has followed the design and testing of six vehicles.
- During the 1999 she has co-ordinates a research group for the Young Researchers Project of the Politecnico di Torino "Experimental and optimization of phonatory valves for the vocal rehabilitation" (D.R n. 275 del 02.04.99) and in the 2003 she has been winner of the IV Galileo Ferraris Competition "Prize for the better innovative ideas" with the topic "Phonatory valves".

Job-related skills

From the 2013 she is a co-founder of Beond (www.beond.net) a Spin off of the Politecnico of Torino.
Beond has obtained the Award "Premio per lo sviluppo sostenibile" for the "Best Innovative start up 2015".
Beond has obtained the 2nd place at the Good Energy Award 2016.

Computer skills

Microsoft OFFICE Package (Word, Excel, Power Point).

Autocad, Adams, Matlab, Simulink. Star ccm,

Other skills

Driving licence

- A and B

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

She is author of more than 120 scientific papers presented in international conferences or published in international journals.
She is inventor of 4 patents.

The research activity has been developed in the Automotive and Applied Mechanics fields, considering also pneumatics, robotics and biomedical applications. It regards to experimental and theoretical studies.
In particular the research activity in Automotive filed, also in cooperation with companies and in National or Regional Programs are relative to: composite materials for structural applications, vehicle dynamics and regenerative braking, NVH analysis, composite materials for automotive and/or structural applications, innovative aerodynamic for city vehicles, electric and hybrid solutions for low consumption vehicle, fuel cell and battery applications.

2011 – Winner of Premio Speciale DISTI-TELPRESS per la Comunicazione ITWIIN
2017 – Winner of Special Recognition European Award EIWIIN for Ingenious & Innovative Achievements

With the Team H_2politO won the Awards:
2017 2° place at the Shell Eco-marathon Europe with the Vehicle IDRAkronos in Hydrogen Prototype Category and Communication Award at the Shell Eco-marathon Europe
2016 1° place at the Shell Eco-marathon Europe with the Vehicle IDRAkronos in Hydrogen Prototype Category.
2016 Design Award at the Shell Eco-marathon Europe (with the vehicle IDRAkronos)
2012 Best Extended Range Vehicle Prototype at the Future Car Challenge from Brighton to London with the vehicle XAM2 2.0
2014 Communication Award at the Shell Eco-marathon Europe
2012 Communication Award at the shell Eco-marathon Europe
2011 Design Award at the Shell Eco-marathon Europe (with the vehicle XAM)
2010 Design (with the vehicle IDRA) and at Communication and Marketing Awards at the Shell Eco-marathon Europe
2009 Communication and Marketing Award at the Shell Eco-marathon Europe

Torino, 19 marzo 2019

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