Curriculum Vitae

PERSONAL INFORMATION	ANTONELLO CHERUBINI
	➤ antonello.cherubini@gmail.com
- C - C	Nationality Italian
SUMMARY	h-index: 5 – citations: 257 (scopus) 5 journal papers; 1 book chapter; 2 conference papers; 3 patent applications
	 Currently assistant professor (RTDA) at the University of Trento The candidate is currently working at the department of industrial engineering of the University of Trento under the supervision of Prof. M. Da Lio. He teaches "Fundamentals of Mechanics" at the University of Verona.
EDUCATION	
2013 - 2017	PhD with honours at the PERCRO robotics laboratory – ING-IND/13
	Sant'Anna University of Pisa
	 Theoretical and experimental research on Airborne Wind Energy and on Nylon Coil Actuators at the PERCRO Robotics Laboratory in Pisa, tutor: Prof. Marco Fontana In 2016 one of our journal papers ranked 13th as most downloaded paper ever of the class A journal "Renewable and sustainable energy reviews" and it is the most cited of my tutor's papers. The candidate, who is first author, wrote the paper and contacted tens of researchers and companies. Six months secondment in TU Delft, The Netherlands, carrying out experimental research on airborne wind energy within the research team led by Prof. Roland Schmehl Management activities like writing deliverables for a European project.
	 PhD dissertation awarded the prize Bernardo Nobile 2017
2007 – 2012	Master's and bachelor's degree in mechanical engineering Politecnico di Milano
	 Master's rank 110/110, bachelor's rank 110/110 Exchange program in Tongji university, Shanghai, China, 2007/2008 Winner of the scholarship from the multinational company Tenaris in 2012
WORK EXPERIENCE	
2022-2023	 Assistant professor (RTDA) at the University of Trento Research activities in autonomous driving at the of the University of Trento in cooperation with Centro Ricerche Fiat, Stellantis Teaching "Fundamentals of Mechanics" at the University of Verona
2020-2021	 Technical consultant in trials, Tribunale di Pisa He has served as technical consultant (C.T.U.) for several judges at the Court of Pisa
	To has served as technical consultant (0.1.0.) for several judges at the obuit of t isa
2018 - 2021	R&D engineer at VRmedia S.r.l., Pisa
	 Design of a smart helmet for remote assistance with augmented reality capabilities in close cooperation with the CTO and his team. We started the product design from scratch in 2018 and we are now producing and selling hundreds of units per year.

are now producing and selling hundreds of units per year.Our product got the ATEX zone 1 certification.

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- The candidate designed, prototyped and engineered the plastic enclosures that are certified antistatic and splash proof IP65.
- The candidate is author of a patent application and helped to write all patent applications of the company.
- Attendance to sales meetings and international tradeshows.

²⁰¹⁸ R&D engineer at Letomec S.r.l., Pisa

- The candidate wrote a project proposal for an Oil & Gas multinational company.
- Presentation of a conference paper at ECF22, Belgrade, 2018.
- Programming of a simulator for hydrogen permeation through steel. The software integrated the MacNabb and Foster diffusion model and replaced the previous software that was used by the company.
- Management of a Siemens server to allow our machines to be operated remotely at the customers' facilities. The server has been set up for the first time.

2016 Test engineer at Cheros Srl, Pisa

- The candidate wrote a project proposal for the H2020 SME instrument.
- Programming of an extensive unit testing program for a server for the mobile hospital of MotoGP.
 The program made sure that the reservations of the pilots and other patients were handled properly.

2012 - 2013 R&D engineer at Kitegen S.r.l., Turin

 Feasibility analysis and design of a low-strain pulley for a large scale experimental ground-gen airborne wind energy generator. Structural analysis: Matlab

PUBLICATIONS

2023	Alexandra Velasco Vivas, Antonello Cherubini, Manolo Garabini, Paolo Salaris and Antonio
	Bicchi, "Minimizing Energy Consumption of Elastic Robots in Repetitive Tasks" IEEE
	Transactions On Systems, Man, And Cybernetics: Systems, Accepted for publication

- 2019 S. Watson et al, "Future emerging technologies in the wind power sector: A European perspective", Renewable and Sustainable Energy Reviews 113, 109-270
- 2018 Antonello Cherubini, Linda Bacchi, Serena Corsinovi, Marco Beghini, Renzo Valentini, "Hydrogen Embrittlement in Advanced High Strength Steels and Ultra High Strength Steels: a new investigation approach", ECF22, Belgrade
- 2017 A. Cherubini, G. Moretti, M. Fontana, "Sistema aereo di captazione eolica d'alta quota per generatore eolico", patent application
- 2016 A. Cherubini, R. Vertechy, M. Fontana, "Dynamic Modeling of Offshore Airborne Wind Energy Converters", (book chapter in the second edition of the AWE Book, Roland Schmehl Ed.)
- 2015 A. Cherubini, A Papini, R Vertechy, M Fontana, "Airborne Wind Energy Systems: A review of the technologies" Renewable and Sustainable Energy Reviews 51, 1461-1476, first google result when looking for Airborne Wind Energy
- 2015 A. Cherubini, R. Vertechy, M. Fontana, "Simplified Model of Offshore Airborne Wind Energy Converters", Renewable Energy
- 2015 A. Cherubini, G. Moretti, R. Vertechy, M. Fontana, "Experimental Characterization of Thermally-Activated Artificial Muscles based on Coiled Nylon Fishing Lines", AIP Advances 5 (6), 067158
- 2015 G. Moretti, A. Cherubini, R. Vertechy, M. Fontana, "Experimental characterization of a new class of polymeric-wire coiled transducers", SPIE Smart Structures, San Diego
- 2013 A. Cherubini, M. Ippolito, "Puleggia perfezionata per verricello ad alta efficienza", patent application ITTO20130365.

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LANGUAGE SKILLS

Italian					
LISTENING	READING	SPOKEN	WRITING	CERTIFICATE	
C2	C2	C1	C2	IELTS ACADEMIC C2 8/9	
B1	B2	B1	A2	DELF A2	
A1	A1	A1	A1		
A1	A1	A1	A1	HSK ELEM. C 3/11	
	LISTENING C2 B1 A1	LISTENING READING C2 C2 B1 B2 A1 A1	LISTENING READING SPOKEN C2 C2 C1 B1 B2 B1 A1 A1 A1	LISTENINGREADINGSPOKENWRITINGC2C2C1C2B1B2B1A2A1A1A1A1	

PROGRAMMING AND IT

OS and office	Windows, Android, Ubuntu, MS Office, Latex
Programming	Scientific - Matlab, Simulink, Mathematica Embedded: C++ Python, Django Version control - git Web design - html 5, css, javascript
Engineering	Vehicle engineering: CarMaker, tcl CAD: Autodesk Inventor, Fusion360, Solidworks, SolidEdge FEM: Abaqus Labview: Basic (Core1)
Prototyping	Arduino IDE for real time data acquisition
ERP CRM	Odoo, Jira

OTHER COURSES

2	2022	Teaching the complementary course "Project management with Jira and Trello" at the University of Trento
2		Teaching "Fundamentals of Airborne Wind Energy Systems" at Universidad Carlos III de Madrid. 1 cfu course held with Dr. Gonzalo Sanchez Arriaga. The course covered the theoretical foundations of airborne wind energy together with relevant industrial examples. Video link
2	2015	Giving exercise classes on SMAs in the course given by Prof. Marco Fontana at the University of Pisa. Tutoring of 3 master's theses.
OTHER EXPERIENC	CE	

- 2017 Presentation at TEDx Sant'Anna, Pisa, "The hidden power of students", Video link
- 2017 Developer of the non-profit website tueamore.org for housing of cancer patients. The project has helped 3000 people to find accommodation in 90 facilities and has a partnership with Trenitalia

Trento, 05th Apr 2023 Antonello Cherubini