







Riccardo Donà

Mechatronics Engineer, PhD

 Aug, 1993

 Varese, Italy


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About Me

During his Ph.D., Riccardo was responsible for the coding part of the bio-inspired automated driving agent "Co-driver". He carried out simulations from MIL to HIL, and designed vehicle models for control based on neural networks. Riccardo then worked as a Technology Expert at Uni Systems. Currently, he is serving for the European Commission DG-JRC as a Project Officer within the field of simulation credibility and technical requirements for Automated Driving Systems.


Languages


 Italian


 English


 French


IT Skills


 Wolfram Mathematica[®]


 MATLAB/Simulink[®]

 C, C++, and Python


 git, CMake, make, ROS


 IPG CarMaker[®], Vires VTD[®]


 Deep Learning

 MS Office & L^AT_EX


Hobbies


 Playing guitar & bass

 Mountain biking

 Digital photography

Working Experience

Jan 2023 – ongoing **Project Officer** European Commission 
Safety of Connected and Automated Vehicles at the Joint Research Centre EU Commission Ispra, Italy

Nov 2020 – Dec 2022 **Virtual Testing Expert** Uni Systems S.M.S.A. 
Automated Driving Systems Simulation Expert

Jul 2012 – Aug 2012 **Apprentice** COVER S.R.L. (VR), Italy
3D CAD Technical drawing

Education

Postgraduate Training

Feb 2021 **Short Course** Technical University of Crete
Dynamic Traffic Flow Modelling and Control

Sept 2019 **Summer School** CISM Udine
Vehicle Dynamics Fundamentals and Ultimate Trends

Study

2017 – 2020 **PhD in Automated Driving Cars** University of Trento
Dreams4Cars EU Project, cum laude
"Agent for Autonomous Driving based on Simulation Theories"

2015 – 2017 **MSc in Mechatronics Engineering** University of Trento
110/110 cum laude
"Control of a Dual Stage Positioning system"

2012 – 2015 **BSc in Industrial Engineering** University of Trento
110/110 cum laude
"Transversal standing waves due to vortex shedding"

2007 – 2012 **Scientific high school diploma** Liceo Galileo Galilei, Ostiglia (MN)
100/100

Abroad experiences

Nov 2017 – ongoing Presentations at several worldwide scientific, policy and industrial conferences/workshops

Aug 2016 – Feb 2017 **Erasmus+** Technische Universiteit Eindhoven (TU/e)

Sept 2012 **Solar Decathlon Europe** Madrid

Awards

2022, 2023 JRC Annual Awards for Excellence – research excellence JRC

2019 Best Student Paper Award VEHITS 2019 Crete

2012 "Premio al merito" Confindustria Mantova

Main publications

2020 **A Mental Simulation Approach for Learning Neural-Network Predictive Control (in Self-Driving Cars)**
M. Da Lio, R. Donà, G. P. R. Papini, F. Biral, H. Svensson
IEEE Access

2022 **Virtual Testing in Automated Driving Systems Certification. A longitudinal dynamics Validation Example**
R. Donà, S. Vass, K. Mattas, M. C. Galassi, and B. Ciuffo
IEEE Access

2022 **Multianticipation for string stable Adaptive Cruise Control and increased motorway capacity without vehicle-to-vehicle communication**
R. Donà, K. Mattas, Y. He, G. Albano, and B. Ciuffo
Transportation Research Part C: Emerging Technologies

May 7, 2024

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