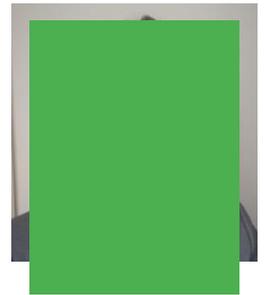


PERSONAL  
INFORMATION

Riccio Ugo, PhD



Sex Male | Date of birth [REDACTED] Nationality Italiana

WORK EXPERIENCE

2022 -Today

**Coordinator of Aerodynamics, Aeroacoustics , Vehicle thermal Management.  
Automobili Lamborghini S.p.a., Sant'Agata Bolognese (Bo) Italy**

Coordinator Aero Team

**Aerodynamics, Thermal, Aeroacoustics Project Leader.  
Automobili Lamborghini S.p.a., Sant'Agata Bolognese (Bo) Italy**

Coordinator of aerothermal Model Aventador /Huracan Team (5 people)  
Responsible of

2019 – 2022

- Budget
- Target Setting
- Target achieving
- 1D – 3D simulation models
- WT/Track Testing
- Team coordination
- Smart Material Development Coordinator

Responsible of aerodynamics of Lamborghini SIAN  
Creator of LSMS system Smart Materials System (Patented)  
<https://www.lamborghini.com/en-en/models/few-off/sian>

inventor of new aerodynamic Device (Patented )

**Innovation Strategy Manager (BiW Trim - Department Coordinator)  
Automobili Lamborghini S.p.a., Sant'Agata Bolognese (Bo) Italy**

-Technological Forecasting  
-Technological Department Roadmap Responsible  
- Innovation Interfuncional Team Coordinator

2014 – 2019

**Senior Aero-Thermal Engineer R&D Dep.  
Automobili Lamborghini S.p.a., Sant'Agata Bolognese (Bo) Italy**

Aerodynamics and Thermal development responsible of :

*Aventador SVJ (nurburgring record):* National Television Interview from Minute (3:42) :  
<http://www.rainews.it/dl/rainews/media/Vroom-24-settembre-2018-l-anno-dei-record-per-il-mondo-dei-motori-28db6da8-6357-4bef-8457-9d2a2b31fdf7.html>

Creator and developer of ALA SYSTEM 2.0

<https://www.youtube.com/watch?v=dfQ5U0YzzDo>

*Lamborghini Centenario*  
*Lamborghini Aventador S*

- \* Aerodynamics Test and Development Planning
- \* Budget definition and Monitoring
- \* Concept Development , Aerodynamics, Aeroacoustics and Cooling
- \* CFD Simulations Coordinator (Uhood Cooling-Aerodynamics-Thermal Management-Brake Cooling Simulation)
- \* Experimental wind tunnel testing and Planning (Drag Downforce Target Achievement)
- \* Engine Cooling Testing and Planning
- \* Max Velocity and Handling Performance on test track
- \* Brake cooling Expert

Softwares: Confidential

#### 2012 – 2014 **MASERATI GIBLI/Quattroporte Aerodynamic Responsible R&D Dep.**

FIAT GROUP AUTOMOBILES S.p.a., Pomigliano D'Aerco (Italia)

- Performance Engineer
- Aerodynamic Optimization (Target Achievement)
- CFD Simulations (Uhood Cooling-Aerodynamics-Thermal Management-Brake Cooling Simulations)
- Development and Testing of novel methods for Brake Cooling prediction using CFD and Radtherm
- Experimental wind tunnel testing (Cx Target Achievement)
- Brake cooling Experimental Testing on racetrack (Correlation with CFD)

Softwares: CD-ADAPCO Star-ccm+ , EXA Powerflow, THERMANALYTICS RadTherm, BETACAE Ansa.

#### 01 gennaio 2011 – 2012 **Aerothermal - CFD Senior Specialist R&D Dep.**

FIAT GROUP AUTOMOBILES S.p.a., Pomigliano D'arco (Italia)

- Novel Methodology/Innovation CFD development responsible
- External Aerodynamic
- Under-Hood Thermal Protection
- Aeroacoustics
- Steady HVAC
- Brake Cooling Optimization
- Unsteady HVAC (WARM UP-COOL DOWN-HEAT SOAK)
- Under-hood mass flow optimization (ATB)
- Deicing and Defogging
- Exhaust Gas Path (Passive Scalars)

-Postprocessing Java scripts

Hvac System CFD Simulation (Pre Cabin) | Thesis Tutor  
CFD Brake Cooling optimization Maserati Quattroporte | Thesis Tutor  
Underbody Thermal Protection CFD - EXP correlations | Thesis Tutor

Softwares: CD-ADAPCO Star-ccm+ , OPENFOAM, EXA Powerflow, THERMANALYTICS RadTherm,

## Curriculum Vitae

BETACAE Ansa.

- 2008 – 2011 **CFD Research Scientist/Engineer AERODYNAMICIST**  
ELASIS scpa, Pomigliano D'Arco (Italia)
- External Aerodynamic
  - HVAC
  - UHC
  - Aeroacoustics
  - Shape Optimization with Morphing Tools
  - CFD simulations of Overtaking cars (Thesis Tutor)
- Softwares: CD-ADAPCO Star-ccm+ , EXA Powerflow, THERMANALYTICS RadTherm, BETACAE Ansa  
Morphing Tools : Ansa, Powerclay  
Optimization Tool : Modefrontier
- 2007 – 2008 **CFD Research Scientist/Engineer COMPOSITE MATERIALS**  
NATIONAL RESEARCH COUNCIL – IMCB (Institute for Composite Materials and BioMedical), Naples (Italia)
- Development of a platform (CFD module) for simulation of the Resin Transfer Moulding manufacturing process for Carbon Fibres Reinforced Polymers. using Matlab. Validation with commercial codes ESI-PAM-RTM.
  - Matlab Scripts to automate experimental testing.
- Softwares: Comsol Multiphysics, Matlab, ESI Pam RTM

## EDUCATION AND TRAINING

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- 2018 **EMTIM X MBA Executive Master in Technology and Innovation Management**  
BBS Bologna Business School
- 2013 **PHD “ Aerospace Technology ” Unsteady CFD methodologies for the resolution of flow field generated by a rotorcraft in forward flight** Livello 8 EQF  
SUN (Seconda Università di Napoli), Caserta (Italia)
- Helicopter Dynamic Stall
  - Fluid dynamics and CFD simulations
- 1999 – 2007 **Aerospace Engineering Master Degree** Livello 7 EQF  
University Of Naples “Federico II”, Napoli (Italia)  
Votazione 107/110
- Title: “A statistical method to study Turbulence”  
A method for the theoretical study of a fluid in turbulent conditions is presented. It is based on the probability equation studied by Hopf . This equation defines the probability of each of the infinite possible velocity fields. The method looks for the solution by a suitable series expansion. The problem is reduced to the solution of a non linear algebraic homogeneous system, derived here in the case of a two dimensional turbulent channel flow.

## PATENTS / ARTICLES

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**PATENTS** 2 Submitted

DEDICATED INTERVIEW  
TV/NEWSPAPERS/INTERNET

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TV : RAINNEWS (MINUTE 3.20) [HTTP://WWW.RAINEWS.IT/DL/RAINEWS/MEDIA/VROOM-24-SETTEMBRE-2018-L-ANNO-DEI-RECORD-PER-IL-MONDO-DEI-MOTORI-28DB6DA8-6357-4BEF-8457-9D2A2B31FDF7.HTML](http://www.rainews.it/dl/rainews/media/vroom-24-settembre-2018-l-anno-dei-record-per-il-mondo-dei-motori-28db6da8-6357-4bef-8457-9d2a2b31fdf7.html)

INTERNET [HTTPS://WWW.LAMBORGHINI.COM/EN-EN/NEWS/LAMBORGHINI-SIANS-SMART-MATERIAL-SYSTEM-HOW-IT-WORKS](https://www.lamborghini.com/en-en/news/lamborghini-sians-smart-material-system-how-it-works)

[HTTPS://WWW.ROADANDTRACK.COM/NEW-CARS/FIRST-DRIVES/A23570757/LAMBORGHINI-AVENTADOR-SVJ-FIRST-DRIVE-REVIEW/](https://www.roadandtrack.com/new-cars/first-drives/a23570757/lamborghini-aventador-svj-first-drive-review/)

LAMBORGHINI MAGAZINE 4 PAGES DEDICATED TO INTERVIEW ABOUT DEVELOPMENT OF SVJ

19 INTERNATIONAL STUTTGART SYMPOSIUM LAMBORGHINI AVENTADOR SVJ AERODYNAMICS: ROUTE TO BREAKING SUPER SPORT CAR'S RECORD (RICCIO.U)

PERSONAL SKILLS

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Mother tongue(s) Italiano

Other Languages English Level C2 (Proficient user)  
German Level A2

Communication skills Excellent Communication Skill

- Course attended : How to Have an Effective Communication
- Right combination of skills and motivation
- Course: Resolution and conflict Management (16 h);

Organisational / managerial skills

- Managing of project activity and resources
- Team Leading Experience
- Thesis coordinator
- Attitude to work in team

Job-related skills

- Strong knowledge of CFD Commercial and Opensource Codes
- Good Experience in Wind Tunnel Testing
- Knowledge of the vehicle and subsystems
- PhD in Engineering discipline, with specialization in Computational Science.
- Adequate skills in numerical algorithms and numerical analysis.
- Strong programming skills.
- Significant knowledge of fluid mechanics and background in mesh-based and mesh-free computational methods.

Computer skills

- OS: Windows, Linux (Red-Hat, Ubuntu)
- Java, Fortran, Matlab

ADDITIONAL INFORMATION

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Courses and Seminars

- 2019: Negotiation Skills
- 2018: Leadership
- 2018: Team Management/Personal Skills
- 2016: From Group to Team
- 2016: Effective Communication
- 2016: Time Management
- 2015: Course: OpenfoAM (32 h);
- 2014: Course: Ensight (16 h);
- 2013: Course: Advanced RADTHERM Course (16 h);
- 2013: Corso Sicurezza "H&S Lavoratori White Collars - Alto Rischio" (16 h);
- 2013: Aeroacoustics with STAR-CCM+ (16 h)
- 2013: Java Programming Course (40h);
- 2013: B2 English Course Linguarama (40 h);
- 2012: B2 English Course Linguarama (40 h);
- 2011: Corso "Prevenire, individuare ed eliminare la discriminazione sul lavoro" (8h);
- 2011: Advanced Course STAR-CCM+ (40 h);
- 2010: Advanced Course BETACAE Ansa (40 h);
- 2009: Iscrizione all'Albo degli Ingegneri della Provincia di Napoli, sezione A, settori a,b,c;
- 2009: Course : Project Management (16h)
- 2009: Course : Improve Communication Skill (16h)
- 2007: Seminar : Fatigue in Composite Materials (4h)

Driving License A-B Full Clean

Travels Place visited: Australia, Italy, Hungary, Greece, Holland, France, Spain, Croatia, UK, US

Hobbies -Basketball Coach (B1 Level)