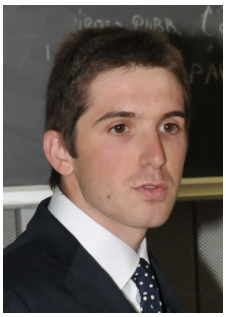
PERSONAL INFORMATION

Riccardo Rubini



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Gender Male | Date of birth 17-01-1993 | Nationality Italian

EDUCATION AND TRAINING

Sept 2016 – Jun 2017 Research Master Program

Institution: von Karman Institute – Brussels

Research Project subject: Numerical study and modelling of the effect of the gas to wall temperature ratio on the bypass transition in an HPT nozzle guide vain

Skills developed:
- Numerical modelling of physical phenomena, computational fluid dynamics, python programming, parallel computing on cluster;
- Numerical techniques applied to fluid dynamics FD,FEM,FV;
- Working with LINUX operating system, shell scripting;
- OpenFOAM programming;
- Teamwork efficency and ability to complete high-quality work on schedule;
- Fully English working proficiency.

Sept 2014 – Sept 2016 Master Degree in Aeronautical Engineering 110/110

Institution: Polytechnic school of Genoa – Genova

Thesis subject: Developing and validation of a Navier-Stokes axisymmetric throughflow for the analysis of axial turbomachinery. Developing of physical model and numerical implementation in NUMECA FINE Open with Openlabs

Skills developed:
- Mathematical and numerical methods for mechanical engineering;
- Advanced applied thermodynamics and heat transfer;
- Compressible and Incompressible Aerodynamics;
- Structural mechanics FEM;
- Combustion;
- Aeroacoustics.

Nov 2015 – April 2016 Short Training Program

Institution: von Karman Institute – Brussels

Thesis subject: Developing and validation of a Navier-Stokes based axisymmetric throughflow for the analysis of axial turbomachinery in NUMECA Openlabs environment

Skills developed:
- Simplified analysis tools for turbomachinery; developing of physical model and numerical implementation;
- Computational Techniques for Fluid Dynamics applied to turbomachinery;
- LINUX operating system and shell scripting.

Sept 2011 – Oct 2014 Bachelor Degree in Mechanical Engineering with honors

Institution: Polytecnic School of Genoa – Genova

Thesis subject: Evaluation of OpenFOAM capabilities applied to the heat transfer in liquid metals

Skills developed

- General Mathematics and Physics;
- Maxwell theory;
- Chemistry;
- Fundamentals of electrical engineering;
- Thermodynamics and heat transfer;
- Solid and structural mechanics.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	A2	A2	A1	A1	A1

Social skills

- Accustomed to teamwork; I practiced competitive sport activities in international cycling teams from the age of 7 to 20;
- I developed my aptitude to international teamwork and collaboration with my fellow collegues during my last working experience at von Karman Institute;

Computer skills

- Programming languages:
  - Basic:Fortran 90;
  - Intermediate: C++, Python, Shell scripting Matlab/Octave, Latex.
- Operating systems:
  - Basic: Windows Desktop, Office Suite, Open Office;
  - Intermediate: Linux Ubuntu,Fedora and Arch distributions.
- Computational software:
  - Basic: Ansys FEM, Ansys Fluent;
  - Intermediate: Numeca, OpenFOAM, SU2.

Other skills

- Very interested in modern particle physics such as experimental verification of standard model and Higgs mechanism (favourite divulgative books: Richard Feynman, Brian Green and Lisa Randall);
- I had also pleasure to partecipate in conferences and meetings dealing with new theories that suggest to extend the standard model: supersimmetry, LQG and string theory.

Artistic skills

- I studied piano and I have basic knowledge of music theory.

Sport skills

- I practiced cycling at competitive level from the age of 7 to 20 partecipating to national and international competitions;
- Currently affiliated to the Italian Federation of Triathlon (FITRI) and Italian Federation of Track and Field (FIDAL);
- Winter sports (freeride and cross country skiing) and mountain lover.