europass Curriculum vitae

PERSONAL INFORMATION

Simone Mesbahi

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PERSONAL STATEMENT

Master Degree Mechanical Engineer. Currently PhD in Therotetical and Applied Mechanics. My work focuses on the control design in the field of vehicle mechatronics, mainly on the optimization of its maneuverability and stability through the screw axis theory.

EDUCATION AND TRAINING

01/11/2019–Present

PhD Theoretical and Applied Mechanics

La Sapienza, Università di Roma, Roma (Italy)

- Control Design applied to vehicle dynamics
- Matlab/Simulink for systems dynamics analysis

09/2016–29/07/2019

Master Degree in Mechanical Engineering

La Sapienza, University of Rome, Rome (Italy)

- FEM Analysis
- Machine building
- Mechanical and thermal measurements
- Fluid machinery in energy conversion systems
- Internal combustion engines
- Structure mechanics
- Mechanical vibrations
- Vibration and noise control
- Differential geometry
- Material reliability

Thesis: "Instant screw axis: a new method to study the roll and the pitch of the vehicle"

Graduation mark: 110 (cum laude)/110

09/2013–07/11/2016

Bachelor Degree in Mechanical Engineering

La Sapienza, University of Rome, Rome (Italy)

- Numerical computation
- Mathematical analysis
- Linear Algebra
- Metallurgy
- Fluid dynamics
- Mechanical technologies
- Energy conversion systems
- Solid mechanics
- Theoretical mechanics

- Applied mechanics
- Mechanical components
- Applied electronics
- Physics

Tesi: "Analisi della cinematica e delle azioni interne di una sospensione double wishbone"
Votazione finale: 110/110

PERSONAL SKILLS

Mother tongue(s): Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B2	B2
	B2				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills

- Matlab/Simulink applied to systems dynamics and modeling
- Solidworks for 2D/3D Modeling
- Ansys for FEM Analysis

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Basic user	Basic user	Basic user	Basic user

Digital skills - Self-assessment grid

- Word, Excel, PowerPoint