



## Raffaele De Biasi

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### ● WORK EXPERIENCE

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07/03/2021 – 12/04/2024 Trento, Italy

**UNIVERSITY TEACHING ASSISTANT** UNIVERSITY OF TRENTO

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Teaching assistant for the course 'Modeling and Design with Finite Elements' (2021) offered as part of the Master's Program in Mechatronics Engineering, and for the course 'Tecnica delle costruzioni meccaniche' (2021-2022-2023-2024) offered as part of the Bachelor's Degree Program in Industrial Engineering at the Department of Industrial Engineering (University of Trento).

14/06/2020 – 16/10/2020 Trento, Italy

**POST-GRADUATE FELLOW FOR RESEARCH** UNIVERSITY OF TRENTO

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I completed the commissioning phase of a rotating teaching machine for flexural speeds analysis. I performed the calibration and an experimental campaign for the machine validation and installation.

25/11/2018 – 19/12/2018 Montebelluna, Italy

**PROJECT MANAGER** NOVATION TECH SPA

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One month internship in which I understood the relationship between customer and supplier, manage bill of materials and Gantt diagrams.

I also worked in the Quality dep. and generate suitable reports.

### ● EDUCATION AND TRAINING

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31/10/2020 – 12/04/2024 Trento, Italy

**DOCTOR OF PHILOSOPHY IN MATERIALS, MECHATRONICS AND SYSTEMS ENGINEERING**

University of Trento

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- Deep understanding of finite element simulation techniques for designing components with intricate topology and shape.
- Theoretical and experimental knowledge of the elastic and fatigue properties of metamaterials
- Detailed understanding of metal additive manufacturing, with a specific focus on titanium alloys and the laser powder bed fusion manufacturing technique.

**Final grade** Excellent cum laude | **Level in EQF** EQF level 8 |

**Thesis** Simulations techniques for lattice structure design

14/09/2017 – 16/03/2020 Trento, Italy

**MASTER DEGREE IN MECHATRONICS ENGINEERING** University of Trento

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- Deep knowledge on design, production methods and managing for a mechatronic product
- Develop of analytical methods for modeling a mechatronic system
- Deep knowledge in mechanical design, FEM simulation for mechanical models, automation, vehicles dynamics and sensing.

**Level in EQF** EQF level 7

- Technical knowledge in mechanical design, electronics, materials and automation.
- Developed usage of software for CAD design and numerical/symbolic analysis
- Deep understanding in mathematics and classical physics

Level in EQF EQF level 6

● **LANGUAGE SKILLS**

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Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **ORGANISATIONAL SKILLS**

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**Organisational skills**

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- Good empathy and propension to group-work learned in the Formula Student project in the University of Trento
- Leadership, acquired in the year I spent as Mechanical Chief for the Formula Student project.
- Good self-organization and task management learned in the University experience.

● **COMMUNICATION AND INTERPERSONAL SKILLS**

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**Communication and interpersonal skills**

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Public speaking experience during conference participation and university lectures.

● **JOB-RELATED SKILLS**

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**Job-related skills**

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Good predisposition to teach developed into many years of private lessons and formation for new Formula Student members

● **DATE AND SIGNATURE**

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28/04/2024

**Raffaele De Biasi**

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● **STATEMENT**

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**Acconsento alla pubblicazione del mio CV in ottemperanza alle disposizioni di legge dettate in materia di trasparenza (D.Lgs. 33/2013).**

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