



Alberto Baroni

Date of birth: 14/08/1990 | **Nationality:** Italian | **Gender:** Male |

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About me:

Mechanical Engineer, actually operating in R&D for Oil&Gas industry and Automotive/Naval environment, three-years experienced in mechanical machining and two years experienced in advanced control/measurement systems

WORK EXPERIENCE

01/01/2022 – CURRENT – Florence, Italy

PHD STUDENT – UNIVERSITÀ DEGLI STUDI DI FIRENZE

Winner of a PON PhD scholarship on green and innovation themes.

Title of the project: "A combined experimental and numerical approach to support the development of the next generation of centrifugal compressors for hydrogen applications"

01/04/2021 – 31/12/2021 – Firenze, Italy

POST-GRADUATE RESEARCHER – UNIVERSITÀ DEGLI STUDI DI FIRENZE

SUITE Project: Development of an Innovative environment for the analysis and optimization of wind turbines based on Artificial Intelligence and high performance computing techniques

Other occupations:

- Development of advanced experimental (hardware, software) on experimental test bench
- Performing of advanced experimental tests on internal combustion engine
- Investigation of new design method on centrifugal compressor
- Performing of innovative experimental test on hydrogen centrifugal compressor at University of Florence test rig

09/2019 – 03/2021

RESEARCH SCHOLAR – UNIVERSITÀ DEGLI STUDI I FIRENZE

Project funded by Regione Toscana Progetto DIGIYARN Development of an innovative system of virtual rapid prototyping real yarn to finished garment

01/2016 – 02/2019 – Firenze, Italy

SHEET METAL WORKER – GASPARRINI PRIMO SRL

- Management of the laser cutting department
- Use of laser cutting machine
- CAD drawing
- CAM software
- Know-how acquisition on mechanical processing and mechanical workshop

EDUCATION AND TRAINING

09/2016 – 07/2019 – Firenze, Italy

MASTER'S DEGREE IN MECHANICAL ENGINEERING – Università degli Studi di Firenze

Thesis: Model-Based Design for the estimation of in-cylinder pressure on ICEs based on the instantaneous engine speed

110/110

09/2009 – 04/2016 – Firenze, Italy

BACHELOR'S DEGREE IN MECHANICAL ENGINEERING – Università degli Studi di Firenze

Thesis: Road accident analysis between vehicle and pedestrians

92/110

09/2004 – 07/2009 – Firenze, Italy

HIGH SCHOOL SCIENTIFIC DIPLOMA – Liceo scientifico Dante Alighieri

75/100

QUALIFICATION

10/2019 – 04/2020

Qualification to the profession of engineer

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B1	B1	B1	B1

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

DIGITAL SKILLS

Microsoft Office | Google Drive | Outlook | Zoom | SolidWorks (Intermediate) | NI LABVIEW | MATLABSimulink | Basics knowledge of working in AutoCAD

DRIVING LICENCE

Driving Licence: A

Driving Licence: B

Calenzano, 25/01/2022

