



GIACOMO DOZZA

Phd Student
@ UNIBO

- ♦ Mechanical Engineer
- ♦ Mechanical Designer
- ♦ Preparation of technical documentation

Career milestones

I am looking for stimulating opportunities that will allow me to grow continuously in both my professional and personal life. I aim for innovation and would like to bring something personal to the workplace I find myself in.

Strenght

- Use of 3D modeling software (CREO Parametric, Autocad Inventor)
- Programming in the Autocad environment
- Programming in Matlab
- Data analysis using Excel and Matlab
- Design of individual mechanical parts and complex assemblies
- Use of optical measurement systems (DIC)

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Profile

I have a degree in Mechanical Engineering from the University of Bologna (Alma Mater studiorum UNIBO). I am a water polo player and a researcher at the Department of Mechanical Engineering (DIN) in Bologna. At the university, my mission is to bring new innovative ideas for the development of new solutions in the medical and pharmaceutical fields. In particular, I would like to offer my mechanical knowledge directly or indirectly to serve patients. I enjoy working in environments where knowledge is varied because this involves discovering and learning new ways of thinking and indirectly brings me into contact with other realities waiting to be discovered. I am someone who is always looking for new challenges and likes to keep up to date with new innovations in the mechanical and biomedical fields.

Academic History

Bologna University

Master degree in Mechanical Engineering

- Graduate with a vote of 103/110
- Title of Master thesis: Caratterizzazione biomeccanica sperimentale di dispositivi per amputati Transfemorali
- Supervisor: Prof. Luca Cristofolini, Co-Supervisor: Ing. Giulia Galteri
Job site: Dipartimento di Ingegneria Industriale (DIN)

Bachelor Degree in Mechanical Engineering

- Graduate with a vote of 97/110
- Bachelor thesis: Comportamento tribologico di un acciaio da utensili prodotto convenzionalmente e con tecnologia additiva

Other title

Qualifying examination for industrial engineer certification

Passing the exam in November 2024

Skills

- **Mechanical Design:** Experience in the design of mechanical components
- **Work with measurement instruments :** Use of measuring instruments such as digital image correlation
- **Data analysis :** Use of data analysis software (MATLAB, Excel)

Past Employment

- **Research Fellow [Oct 2024-Oct-2025]:** I won a scholarship for a project carried out at the Department of Industrial Engineering (DIN) in Bologna in collaboration with INAIL, based in Budrio, Bo.

Language and Software

- Italian (native), English (good in a work context), Spanish (basic)
- Office package: PowerPoint, Excel, Word

Hobby

- Professional Water Polo Player

Project

Engineering of a prosthetic stem [Oct 2024- Dic 2024]

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Centro Protesi



I engineered a prototype of a prosthetic stem starting from a CAD design base. Specifically, I simplified the geometry and added machining to improve mechanical behavior in the most critical stress areas. My goal was to produce a piece that could be tested and then studied for fatigue.

Development of a security system [Jan 2025- Ora]

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Together with the INAIL company in Budrio, we are developing and designing a safety system that aims to counteract accidental torque overloads transmitted during patient walking. My contribution is to design the parts and verify that the system is mechanically functional. To do this, I performed structural calculations and, together with sub-partners, we carried out numerical simulations on the prototype. Finally, the functionality was discussed and approved by the client.