



Andrea Sassoli

Mechanical engineer | Car and motorcycle enthusiast

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Profile

I consider myself an **hard-worker**, a person with strong **discipline** and with an aptitude for **teamwork**: I strongly believe that team work makes the dream work. I pursue ongoing improvement and I am very demanding of myself.

Over the years I have greatly strengthened my ability to **problem solving** and **critical thinking**.

I have a particular interest in all issues related to the energy transition and I hope to contribute to making the industry and the world we live in a better place.

Education

Doctor of Philosophy- PhD, Industrial Engineering 11/2023 - 11/2026

Università degli studi di Firenze, Firenze (FI)

- **PhD** co-founded by **Baker Hughes-Nuovo Pignone**
- **Main fields of study/interest** : internal combustion engines, oil-free reciprocating compressors, hypercompressors, hydrogen compression

Master degree in Mechanical Engineering 12/2020 - 10/2023

Università degli studi di Firenze, Firenze (FI)

- **Degree mark**: 110/110 cum laude
- **Thesis title**: Dynamic analysis of seals for oil-free reciprocating compressors pistons through the development of a numerical model based on a fluid volumes network (in collaboration with **Baker Hughes-Nuovo Pignone**)
- **Project**: Design for manufacturing & assembly (**DFMA**) of a fan heater
- **Project**: preliminary design of a centrifugal pump, centrifugal compressor and an axial turbine stage
- **Project**: **LCA** (Life Cycle Assessment) for evaluating the environmental sustainability of biofuels
- **Project**: **economic analysis** (NPV, PBP) on an additional turbine in the Montemignaio windfarm
- **Main fields of study**: **HEV/BEV** and conventional vehicle powertrain, **vehicle dynamics** and wheel-road contact modeling

Bachelor degree in Mechanical Engineering 10/2016 - 12/2020

Università degli studi di Firenze, Firenze (FI)

- **Degree mark**: 108/110
- **Thesis title**: Rolling bearings fault diagnosis with the help of **machine learning** techniques
- **Main fields of study**: mechanical design, behavior and selection of materials, turbomachinery, manufacturing processes

Diploma di maturità scientifica 09/2011 - 06/2016

Liceo scientifico Galileo Galilei, Poppi (AR)

Internship and other experiences

Intern and thesis student for REASE research group and Baker Hughes 03/2023 - 09/2023

UNIFI, Calenzano (FI)

30 hours English course with a native speaker at CLA (UNIFI) 10/2022 - 12/2022

Florence

Personal details

Date of birth

May 13, 1997

Nationality

Italian

LinkedIn

linkedin.com/in/andrea-sassoli-53720727a

Skills

Microsoft Excel

Microsoft PowerPoint

Microsoft Word

LateX

C/C++

MATLAB

Simulink

Solidworks

Communication

Hypermesh and Hyperview

Languages

Italian

English

French