

# Edoardo Innocenti

MECHANICAL ENGINEER

Antwerp, Belgium

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## Summary

In a few words, I'm a Mechanical Engineer with a passion for programming, physics, and mathematics. Fueled by a genuine curiosity, I like to explore a range of different disciplines and I feel enriched to discover new things and expand my knowledge. I'm usually excited to work in a group and challenge myself with intricate problems.

## Work Experience

### Atlas Copco

Antwerp, Belgium

PROJECT ENGINEER - MBE & CALCULATION

Aug. 2023 - Now

- Developed and implemented an API for the final tests in production. Automatic performance checks according to ISO-1217
- Maintained and optimized MBE models in MATLAB, responsible for around 70% of Oil-Free Screw Compressors digital twins
- Followed the design and laboratory testing phases for the development of 2 new ranges of product
- Enhanced the performance of existing in-production models by approximately 2%, leveraging static analysis of production test data

### TMC

Brussels, Belgium

ENGINEERING CONSULTANT

May. 2023 - Now

- Engaged in a comprehensive series of specialized training programs to enhance my technical expertise

### Ricciarelli S.P.A.

Pistoia, Italy

INTERNSHIP AS 3D CAD DESIGNER

May. 2017 - Jul. 2017

- Gained hands-on experience in 3D CAD design, utilizing SolidWorks to develop mechanical models

## Education

### Politecnico di Milano

Milan, Italy

MSc IN MECHANICAL ENGINEERING - MECHATRONICS & ROBOTICS

Sep. 2020 - Dec. 2022

- Thesis: "Design of a small footprint 3-axial MEMS gyroscope"

### Università degli Studi di Firenze

Florence, Italy

BSc IN MECHANICAL ENGINEERING

Sep. 2017 - Aug. 2020

- Thesis: "State of art of fluid-thermo-structural optimization in turbomachinery's components"

### ITTS Silvano Fedi - Enrico Fermi

Pistoia, Italy

HIGH SCHOOL DIPLOMA IN MECHATRONICS & ROBOTICS

Sep. 2012 - Jun. 2017

## Skills

### Software

MAIN SOFTWARE AND SKILLS USED DURING MY WORKING AND EDUCATIONAL EXPERIENCES

- **MATLAB** and **Simulink** - Model Based Engineering, Object-Oriented-Programming - Aero Quanser Control
- **Programming Languages**: good knowledge: **Python**, **C++**, basic knowledge: **C**, **JavaScript**, **HTML**, **CSS**
- **COMSOL Multiphysics** - Finite Element Analysis - experience during MSc Thesis
- **SolidWorks** - 3D CAD Design - Design of a Tower Crane
- **Adams** - Multibody dynamic simulation - Design of a Corking Machine
- **Microsoft Office** (**Excel**, **Word**, **PowerPoint**, Microsoft BI)

## Courses and Certifications

### Programming Cousesers

Codecademy.com

COVERING HTML5, CSS, JAVASCRIPT, C++, AND EMPHASIZING PYTHON FOR DATA ANALYSIS AND MACHINE/DEEP LEARNING.

- Build a Deep Learning Model with TensorFlow
- Build a Machine Learning Model with Python
- Learn C++ and Learn Python 3