



MARCO VENTURA

Physics engineer

Italy

STRENGTHS

Teamwork Curiosity
Practical sense Listening
Confidence Motivation
Creativity

LANGUAGES

Italian: Native

English: Professional / C1

Spanish: Basic / A1

INTERESTS

Volleyball Skiing Hiking
Chess Trekking
Cultural exchange

ABOUT ME

I'm an energetic and motivated engineer graduated at Politecnico di Milano with maximum grades, with proven knowledge in optics and lasers field. I am currently worker as a researcher at CNR-IFN (Institute for photonics and nanotechnologies - National Research Council) on Raman spectroscopy for biomedical applications in a highly stimulating laboratory. Here, I could develop teamwork and organizational skills, besides the use of a creative approach to solve problems. Thanks also to the Erasmus experience i had during my studies, I am adaptable to challenging situations and I have good listening and communication skills, both in English and Italian.

EDUCATION

MSc Engineering Physics | Politecnico di Milano

📅 sep 2020 - dec 2022

📍 Milan, Italy

- Grade: 110 cum laude / 110
- Thesis: Development and optimization of Raman microscopy approaches for the pre-clinical study of osteopetrosis

Erasmus Program | NTNU - Norwegian University of Science and Technology

📅 jan 2021 - jun 2021

📍 Trondheim, Norway

- Activity: Courses and exams

BSc Physics Engineering | Politecnico di Milano

📅 sep 2017 - sep 2020

📍 Milan, Italy

- Grade: 104/110
- Thesis: Advanced molecular spectroscopy techniques with optical frequency combs

EXPERIENCE

Scientific Researcher | CNR-IFN

📅 jan 2023 -

📍 Milan, Italy

- Research on Raman microscopy for biological applications

Tutor

📅 sep 2016 - jun 2022

📍 Brescia, Italy

- High-school students tutoring in mathematics, physics, informatics and chemistry

TV technician

📅 sep 2021 - jul 2022

📍 Brescia, Italy

- Installation and configuration of new televisions

Worker | Scalvini Racing

📅 jun 2017 – aug 2017

📍 Brescia, Italy

- Production and assembly of muffler components

CONFERENCES

Photonics West 24 | Oral presentation

📅 jan 2024

📍 San Francisco, CA, USA

- Unravelling Osteopetrosis: Raman spectroscopy for studying and assessing a rare genetic disorder

ICAVS 12 | Oral presentation

📅 aug 2023

📍 Krakow, Poland

- Pre-clinical characterization of Osteopetrosis in Mice Models by Raman microspectroscopy

TECHNICAL SKILLS

Programming

- MATLAB, Python, R, C, Arduino

Professional Softwares

- Zemax OpticStudio, LightField, AutoCad, ImageJ, OriginLab

Other Programs

- Office Package (Excel, Word, Power Point, Access), \LaTeX