

# MARCO FERRARI

## PERSONAL INFORMATION

DATE OF BIRTH 23/09/1994, Trieste (Italy).  
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## PROFILE

I am determined, motivated, and a fast learner. During my academic experience, I developed a **scientific mindset** with which I can **methodically approach** engineering tasks. I have a keen interest in **computational methods**, **optimization algorithms**, and **artificial intelligence**. My solid theoretical background is combined with experience gained through work, traineeship, and student projects.

## CAREER OBJECTIVE

I am looking for a **R&D** position in an **innovative** company, interested in developing together **cutting-edge technologies** and methodologies to solve problems in an effective manner.

## WORK EXPERIENCE

- SEPTEMBER 2020 – **Modelling Engineer**  
PRESENT CPI-ENG S.r.l., Trieste, Italy.  
Development of control systems, grey-box modelling of dynamic systems • Data analysis and development of ML-DL models for complex phenomenon • Firmware and GUI development for STM32 MCUs.
- SEPTEMBER 2019 – **Traineeship – product specialist**  
FEBRUARY 2020 Cybertec S.r.l., Trieste, Italy.

## EDUCATION

- SEPTEMBER 2017 – **Master's Degree in Mechanical Engineering**  
APRIL 2020 University of Trieste, Italy.  
*Final marks: 110/110 summa cum laude.*
- SEPTEMBER 2013 – **Bachelor's Degree in Industrial Engineering**  
MARCH 2017 University of Trieste, Italy.  
*Final marks: 107/110.*
- SEPTEMBER 2008 – **Technical High School Diploma**  
JUNE 2013 Technical Institute A. Volta, Trieste, Italy.  
*Final marks: 100/100 summa cum laude.*

## IT SKILLS

Excellent working ability with **Python** for **scientific computing** and **data visualization** (*jupyter, numpy, pandas, scipy, matplotlib, plotly, seaborn*, etc.). Good knowledge of tools for the analysis and automated manipulation of data, **machine learning** and **deep learning** techniques (*scikit-learn, keras*).

Good knowledge of **MATLAB**, **Simulink**, and **Stateflow**.

Working experience with **C#** for desktop application, **TouchGFX** and **C++** for STM32 GUI development. Proficiency with **git** for code versioning.

Excellent knowledge of the **MS Office** suite. Familiarity with **LaTeX**.

## SOFT SKILLS

**Problem solving** attitude, propensity to collaboration, **team working** and peer tutoring, good priority management ability, capable of **communicating effectively**.

## LANGUAGE SKILLS

**Italian** – Mother tongue.

**English** – Proficient. Comprehension C1\*, Production B2\*.

\* Self-assessment based on Common European Framework of Reference for Languages ([CEFR](#)).

## COURSES AND ACTIVITIES

[Machine Learning](#) course @ Coursera • [Data Science with Python](#) specialization @ Coursera • [Deep Learning](#) specialization @ Coursera • Soft skills summer school @ EESTEC.

## INTERESTS

Guitar • Music recording and editing • Basketball • Baskin • DIY.

## PORTFOLIO

A repository containing relevant projects can be found on [GitHub](#). These concern **CFD** analysis, **optimization**, multi-criteria decision making, and **model-based** simulations.

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