Andrea Ferrari

Curriculum Vitae — Last Update November 2025

Pistoia, Italy — 31/05/2000

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PRESENTATION

- PhD student at the University of Bologna
- Master's graduate in Mechanical Engineering
- Highly motivated to deepen my expertise in automation and robotics

WORK EXPERIENCE

PhD - *Mechanics and Advanced Engineering Sciences* — Nov. 2025 - Present

IMA Group S.p.A. & Alma Mater Studiorum University of Bologna

- **Research theme:** Development of Advanced Robotic Packaging Systems for the E-Commerce Sector

Research Fellow — May. 2025 - Oct. 2025

IMA Group S.p.A. & Alma Mater Studiorum University of Bologna

- **Research theme:** Trajectory Planning of Collaborative Robots for Industrial Tasks in Dynamic Scenarios

Master's Internship and Thesis — Sep. 2024 - Mar. 2025

IMA Group S.p.A. & Alma Mater Studiorum University of Bologna

- **Thesis title:** Time-Optimal Trajectory Planning for Anti-Sloshing Robotic Manipulation of Multiple Liquid-Filled Containers

Marchesini Group Mechanical Engineering Project — Oct. 2023 - Feb. 2024

Marchesini Group S.p.A & Alma Mater Studiorum University of Bologna

- **Project objective:** Design of a "Direct Drive" Solution for a Tablet Counting Machine

Bachelor's Internship and Thesis — Feb. 2022 - Sep. 2022

Alma Mater Studiorum University of Bologna

- **Thesis title:** Design and Structural Analysis of a Machine for Measuring the Thermal Conductivity

EDUCATION

Master's Degree with Honors - *Mechanical Engineering* — Oct. 2022 - Mar. 2025

Alma Mater Studiorum University of Bologna

- **Curriculum:** Automation and Robotics

Bachelor's Degree with Honors - *Mechanical Engineering* — Oct. 2019 - Oct. 2022

Alma Mater Studiorum University of Bologna

Scientific Diploma — Sep. 2014 - Jun. 2019

Liceo Scientifico Amedeo di Savoia Duca d'Aosta, Pistoia

- **Extracurricular activities:** Elected Student Representative in the 2018/2019 School Year

PERSONAL SKILLS

Languages	Programming and Digital Skills	Soft Skills
Italian: Native	Python, MATLAB, Simulink, CasADi, TwinCAT XAE, Excel	Public speaking
English: B2	*CAD software:* Creo PTC, AutoCAD	Team working
	Document preparation: LaTeX, PowerPoint, Word, Inkscape	Problem solving