



Federico Brandini

Nationality: Italian **Date of birth:** 25/01/2002 **Place of birth:** Fidenza (PR), Italy

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EDUCATION AND TRAINING

PhD in Information Technologies

University of Parma [01/11/2025 – Current]

City: Parma | **Country:** Italy | **Field(s) of study:** Automatic Control ; Operations Research | **Level in EQF:** EQF level 8

Modeling and optimization of a magnetic levitation system for transporting objects and liquids (in collaboration with Krones AG)

Master's Degree in Computer Engineering

University of Parma [01/09/2023 – 09/10/2025]

City: Parma | **Country:** Italy | **Final grade:** 110/110 cum Laude | **Level in EQF:** EQF level 7 | **Thesis:** Minimum-time feedforward anti-sloshing control

Bachelor's Degree in Computer, Electronic, and Telecommunications Engineering

University of Parma [01/09/2020 – 12/07/2023]

City: Parma | **Country:** Italy | **Final grade:** 110/110 cum Laude | **Level in EQF:** EQF level 6 | **Thesis:** Genetic Programming for the Optimization of Latent Pattern Representation

Technical High School Diploma

ITIS Leonardo da Vinci [01/09/2015 – 18/06/2020]

City: Parma | **Country:** Italy | **Field(s) of study:** Computer Science ; Telecommunications | **Final grade:** 100/100 cum Laude | **Level in EQF:** EQF level 4

WORK EXPERIENCE

🏢 **Krones AG** – Neutraubling, Germany

Student Intern

[01/03/2026 – Current]

Planar motors: modeling, optimization, and control

🏢 **Kosme S.r.l.** – Parma, Italy

Student Intern

[01/03/2025 – 30/09/2025]

- Modeling and optimization of a magnetic levitation system for transporting objects and liquids, with minimization of transport time
- Time-optimal anti-sloshing control

🏢 **Azienda Ospedaliero-Universitaria di Parma** – Parma, Italy

Student Intern

[01/06/2019 – 01/07/2019]

- Hard drive encryption for corporate computers in compliance with European Regulation 2016/679 (GDPR)
- Technical support

 **Azienda Ospedaliero-Universitaria di Parma** – Parma, Italy

Student Intern

[01/06/2018 – 01/07/2018]

- Hard drive encryption for corporate computers in compliance with European Regulation 2016/679 (GDPR)
- Modifications to the hospital device database

SKILLS

control systems / Operations Research / mathematical modelling / MATLAB

Programmazione

Assembly (computer programming) / C / CUDA / C++ / C# / VBA (Excel) / Java (computer programming) / Python (computer programming) / Haskell / Programmazione concorrente / Programmazione parallela

Sviluppo Web

HTML / CSS / JavaScript / PHP / SQL / database / service-oriented modelling / ReactJS

Programmazione PLC

Ladder / Sequential Function Chart (SFC) / Structured Text (ST)

IA

Convolutional Neural Network (CNN) / Artificial Neural Networks / Deep Neural Networks / Machine Learning

Software

use word processing software / use presentation software / use spreadsheets software

DIGITAL SKILLS TEST RESULTS

	Information and data literacy	ADVANCED	Level 6 / 6
	Communication and collaboration	ADVANCED	Level 6 / 6
	Digital content creation	ADVANCED	Level 6 / 6
	Safety	ADVANCED	Level 6 / 6
	Problem solving	ADVANCED	Level 6 / 6

Results from a [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HONOURS AND AWARDS

[21/04/2026] Ordine degli Ingegneri della Provincia di Parma & University of Parma

2026 Graduation Award Best Master's Thesis Award in Information Engineering (2026)

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