

# SIMONE CIRELLI

Date of Birth: 20/08/2001

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I am a student in Engineering, interested in **automation and artificial intelligence**. I have studied math and **physics** thoroughly, getting important results in national and international competitions. I am truly passionate about applying my knowledge to practical projects with the aim of making a meaningful impact on the world.

## EDUCATION

PISA, ITALY

**SANT'ANNA SCHOOL OF ADVANCED STUDIES PISA, ITALY**

Honors degree in **Information Engineering** (~2% acceptance rate)

**GPA: 30/30**

Expected Graduation Date: 09/2025

PISA, ITALY

**MASTER OF SCIENCE IN ROBOTICS AND AUTOMATION, UNIVERSITY OF PISA (IT)**

Expected graduation date: 12/2025

PISA, ITALY

**BACHELOR OF SCIENCE IN INFORMATIC ENGINEERING, UNIVERSITY OF PISA (IT)**

Expected graduation date: 12/2025

**GPA: 30/30**

PISA, ITALY

**BACHELOR OF SCIENCE IN ELECTRONIC ENGINEERING, UNIVERSITY OF PISA (IT)**

Graduation date: 22/09/2023

Final mark: 110/110 Magna cum Laude

## EXPERIENCE

07/2023 – 09/2023

**RESEARCH ASSISTANT, LMB LAB - ETH ZÜRICH (CH)**

Undergraduate researcher in the Amgen Scholars Program (~3% acceptance rate).

Participation in the project 4Dspine – radiation-free tool for diagnosing scoliosis using AI.

My project involved the use of NN for analyzing 3D point clouds.

09/2021 – NOW

**FOUNDER AND HEAD OF TEAM, CAELUS UAV TEAM, PISA (IT)**

Our team develops both the software and the structure of autonomous drones, in order to make them complete some tasks autonomously.

1<sup>st</sup> place worldwide in the IEEE UAV Challenge 2023 (USA). Featured on RAI1, Italian main channel.

02/2022 – 03/2022

**RESEARCH ASSISTANT, RETIS INSTITUTE - SANT'ANNA, PISA (IT)**

Application of AI in point cloud segmentation for autonomous train driving.

02/2021 – 10/2021

**RESEARCH ASSISTANT**, BIOROBOTICS INSTITUTE - SANT'ANNA, PISA (IT)

Participation in the project Myki – creation of a prosthetic arm. I developed an algorithm to compensate the mechanical disturbances using MATLAB. Teamwork with the PhDs.

**IT MANAGER**, JEBE SANT'ANNA

JEBE is the Junior Enterprise founded by the honors students of Scuola Superiore Sant'Anna. Our consulting services are an opportunity for the meeting between academic excellence and businesses.

07/2019 – 08/2019

**INTERNSHIP**, ELCA SRL, BRESCIA (IT)

Co-work to design and assemble electrical circuits. Use of the software Eagle  
Duration: 4 weeks

06/2018 – 07/2018

**INTERNSHIP**, S4WIN, BRESCIA (IT)

Design of a web app. Development of the Frontend and Backend  
Use of the software: Angular, Slim; Use of the language PHP, JavaScript  
Duration: 200 hours

## SKILLS

- Knowledge of the languages: C++, MATLAB, Python, SQL, PHP, JavaScript, HTML
- Machine Learning and AI (PyTorch, TensorFlow)
- Good knowledge of 3D Printing, 3D Design (Programs: Blender, SolidWorks, Ultimaker Cura)
- Knowledge of the programs: Angular, Bootstrap, Processing, Word, Excel, PowerPoint
- High Problem-Solving Skills in Math and Physics
- Project Management and communication skills

## STAGES AND INTERNATIONAL EXPERIENCES

- **2015 – 2018: MATH STAGES**, BRIXIAMATE: Training for the Math Olympic Games; 8 one-week
- **02/2020: PHYSICS STAGE**, SCUOLA NORMALE SUPERIORE: Training (20 students selected in all of Italy) for the Physics Olympic Games
- **01/2021 – 06/2021: CYBERCHALLENGE**, CINI: Cybersecurity course with a final challenge

## LANGUAGES

Italian (Native)

English (C2 level)

French

## AWARDS

- **Sant'Anna** Honors 5 years merit full scholarship, top 2% of applicants
- **European Physics Olympic Games**: bronze medal
- Math Olympic Games: Regional and International level
- Finalist of *Productflows*, the **product management** competition organized by **Bending Spoons**

## ACTIVITIES

For many years, I have enjoyed playing the violin (1st level certification in conservatory), classic guitar (2nd level) and the piano. I love to keep myself fit, challenging myself by learning calisthenics skills. These activities have taught me that great results can be achieved only with hard work and discipline