



# Francesco Bruno

Nationality: Italian  
10/10/1999  
Lausanne, CH

Title: Automation and Control Engineer

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## SUMMARY

I am a recent graduate in Automation and Control Engineering MSc from Politecnico di Milano. Always been fascinated by the world of robotics, mobility, and biomedical/pharmaceutical. In my free time, I enjoy playing the piano, both solo and as part of a large youth orchestra, and I love electric mountain biking to experience the thrill of adventure while connecting with nature. I'm deeply committed to continuous self-improvement and thrive in multicultural, dynamic environments where I can apply my technical expertise and logical skills.

## EXPERIENCE

2024–present	<b>R&amp;D Automation and Control Engineer</b> MIROS TECHNOLOGY · Lausanne	
	Development of smart and adaptive robotic surfaces to redefine the way people interact with their workspaces, creating adaptable environments that prioritize efficiency and innovation (UI design, full-stack development, network architecture, low-level motor control, PCB design).	

## EDUCATION

2023–2024	<b>Master's Thesis, Reconfigurable Robotics Lab</b> EPFL · Lausanne Free mover exchange semester	
2021–2024	<b>Master of Science - MS, Automation and Control Engineering, School of Industrial and Information Engineering</b> POLITECNICO DI MILANO · Milano Final Mark: 107 /110	
2022–2023	<b>Master of Science - MS, Automatic control and Intelligent Systems (ASI)</b> GRENOBLE INP - UGA · Grenoble Erasmus exchange program	
2018–2021	<b>Bachelor of Science - BS, Automation Engineering, School of Industrial and Information Engineering</b> POLITECNICO DI MILANO · Milano Final Mark: 100/110	

## SKILLS HIGHLIGHTS

### Technical Skills

- Arduino, C++, Python
- Unreal Engine 5
- JavaScript, React
- Matlab, Simulink
- KiCad
- MQTT
- SQL
- ROS

### Hands-On Skills

- Prototyping
- Assembling
- Soldering

### Soft Skills

- Project Management
- Team Collaboration
- Problem Solving
- Troubleshooting
- Adaptability

## PROJECTS

2023–2024	<b>Human-in-the-loop: control of a human-scale interactive platform for immersion in a virtual environment</b> RRL · Lausanne Research and development on a human-scale interactive robotic platform for creating physical immersion between a human body and a virtual environment	
2022–2023	<b>Animatronics for voice and speech: actuation of a mechatronic head</b> GIPSA-LAB · Saint Martin d'Hères Development of a mechatronic avatar that reproduces the gesture of the main speech articulators	
2022–2023	<b>Track and follow of a moving person</b> LIG · Saint Martin d'Hères Design of a ROS package to track and follow a moving person, based on the robair platform developed at LIG lab	

## LANGUAGES

Italian **Native Language**

English **Professional working proficiency**  
TOEIC · Score 945/990

French **Limited working proficiency**