



Francesco Bruno

Automation and Control Engineer

 10/10/1999
 Lausanne, CH

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SUMMARY

I am an automation and control engineer with experience in developing, integrating, delivering and supporting complex systems combining embedded software, electronics and hardware.

In my career, I have taken ownership of products throughout their entire lifecycle, from early prototypes and system architecture to manufacturing, on-site installation, commissioning and technical support.

Working across multiple engineering domains has given me a strong system-level understanding and the ability to troubleshoot technical issues by integrating hardware, software and real-world applications. I have managed suppliers, manufacturers and customers to ensure a reliable product deployment and continuous improvement.

I am passionate about understanding how complex systems works, supporting their deployment in real-world environments and working closely with clients to solve practical challenges.

EXPERIENCE

Founding Engineer, *Miros Technology SA*

Lausanne, CH (04/2024-Present)

- Developed and integrated system architecture, embedded software, electronics and hardware throughout the entire development phase of the company's main product, a smart and connected on-demand remote-working station.
- Guided the company's strategical pivot towards interconnected smart workpods, taking responsibility of product development from concept to on-site deployment.
- Led sourcing and supplier management, manufacturing, assembly, commissioning, and delivery of the first ten production units within one year from initial conception.
- Supported deployment at customers by performing on-site installations, troubleshooting, and providing technical support.

EDUCATION

Master's Thesis (Free-mover Program), *Reconfigurable Robotics Lab - EPFL*

Lausanne, CH (2023-2024)

M.Sc. Automatic Control and Intelligent Systems (ASI), Erasmus Exchange, *Grenoble INP - UGA*

Grenoble, FR (2022-2023)

M.Sc. Automation and Control Engineering - Grade: 107/110, *Politecnico di Milano*

Milano, IT (2021-2024)

SKILLS

Technical: Embedded Systems, Python, MATLAB, Simulink, Unreal Engine 5, RaspberryOS, KiCad, PLC, ROS

Hands-on: System Architecture, Hardware Integration, Hardware Debugging, Prototyping, Mechanical Assembly, Electrical Wiring, Cable Routing, Field Testing, Technical Support

Personal: Project Coordination, Technical Leadership, Team Collaboration, Problem Solving, Adaptability

PROJECTS

Human-in-the-loop: control of a human-scale robotic platform for immersion in a virtual environment, *EPFL*

Designed and validated the control system of a human-scale interactive robotic platform, enabling physical immersion between a user and a virtual environment.

Animatronics for voice and speech: actuation of a mechatronic head, *Gipsa-Lab*

Designed and integrated a mechatronic larynx and an actuation system for an animatronic head capable of reproducing human speech articulation.

Track and follow of a moving person, *LIG*

Implemented autonomous person tracking and following capabilities on the RobAir platform through a custom ROS package.

INTERESTS

Playing piano and guitar, Photography, Cinema, Bouldering, Hiking

LANGUAGES

• **Italian** - Native speaker • **English** - Professional working proficiency (C1) • **French** - Limited working proficiency (B2)