

ALESSANDRA ISELLA

Biomedical Engineer,
Technologies for electronics

Driven by **curiosity** to understand and apply technology to real-world problems, I enjoy **connecting with people** and contributing to environments where **innovation** creates meaningful impact.

With a technical background in **electronics** and **computer science**, I have developed a strong interest in **longevity** and **preventive health approaches**. My focus includes physiological signal processing, sensor-based systems, and multimodal data integration for wellness, preventive medicine, and sports performance.

Contacts

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alessandraisella

Milano, Italy

Education

M.Sc. in Biomedical Engineering,
Technologies for electronics
Current average: 29.5/30
Politecnico di Milano *09.2024 - expected 03.2027*

B.Sc. in Biomedical Engineering
Final mark: 110/110
Politecnico di Milano *2021 - 2024*

Liceo scientifico tradizionale
Final mark: 100/100
Liceo scientifico G.B. Grassi, Lecco *2016 - 2021*

Projects

Custom environmental monitoring device
Team project: sensor board design, firmware, and mobile app for a clinical correlation study on environmental and physiological infant data.
with San Gerardo Hospital (Monza) *02/2026 - 06/2026*

Personal AI-agent tools
Building agentic tools for daily-life automation and planning (personal use).
ongoing

Publications

L. Fiorin, A. Guarnerio, A. Isella, BACCO: a Tool for Holistic Wellness Monitoring.
IEEE STAR 2024

A. Isella, A. Aliverti, A. Angelucci, et al., Cardio-respiratory and Biomechanical Adaptations to Indoor Rowing
IEEE STAR 2025

A. Isella, S. Bardini, et al., WARM: Warm-up Readiness from Multivariate Wearable Physiology
IEEE EMBC 2026

Professional skills

Programming
Python
C/C++
Matlab
Dart / Flutter
Swift, SwiftUI

Tools
Arduino
KiCad
Solidworks
Simulink

Agentic dev
Claude, Codex
Context eng.

Languages

English
C2 level - CAE (grade A)

Spanish
B2 level

Italian
Native