Martino Micheletti

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EDUCATION

Polytechnic of Milan — **Milan, Italy**
B.Sc. *Electronics Engineering* — *September 2024 - July 2027*

- **Relevant Courses:** Fundamentals of Electronics, Electronic Devices, Circuit Analysis, Control Systems, Computer Architecture, C Programming

West Catholic High School — **Grand Rapids, Michigan, USA**
August 2022 - May 2023

- I was an exchange student at West Catholic High School

PROFESSIONAL EXPERIENCE

AdventureX Hackathon (Mentor with Mentra YC W24) — **Hangzhou, China**
July 2025

- Helped participants in building wearable apps on MentraOS smart glasses (e.g. Mentra Live and Even Realities G1s) during the hackathon

Self-Directed Technology Immersion — **Shenzhen, China**
July 2025 – August 2025

- Explored hardware ecosystems and prototyped embedded projects with mentorship by Mentra (YC W24) engineers.
- Gained exposure to innovation hubs and product development workflows.

Dynamis PRC - Cost Evaluation Team Member — **Milan, Italy**
October 2024 - October 2025

- Managed bills of materials for driver interfaces system in a racing prototype.
- Developed costing methodologies and schedules to evaluate production processes.
- Supported technical decision-making with cost/benefit analysis.
- Team member affiliated to the powertrain & electronics department

Azienda Agricola Zuani — **Trento, Italy**
Worker — *August 2024 - September 2024*

- Contributed to the harvesting of apples and pears for Azienda Agricola Zuani, working 9 hours per day, Monday to Sunday.

WebValley, Bruno Kessler Foundation — **Trento, Italy**
Student Researcher — *June 2023 - July 2023*

- Led team in building ML models to predict indoor air quality using outdoor sensor data.
- Implemented data preprocessing and evaluated multiple machine learning models (e.g., random forest regressions) to optimize performance.

PROJECTS

HackHarvard (Repo) — *October 2025*

- Developed Rescue, an CPR guidance app using MediaPipe and TensorFlow for real-time hand-position tracking.
- Integrated an adaptive metronome and local ML inference for latency-free feedback during emergency response.

HackMIT (Repo) — *September 2025*

- Built an app for the Mentra Live smart glasses to help students and recruiters connect more effectively by combining Automatic Speech Recognition (ASR), Optical Character Recognition (OCR), and facial recognition.
- Designed the frontend in React Native, implemented backend services with Google Cloud + Firebase (Flask), leveraged MentraOS for sensor integration and audio output, and built a Python server for OCR (Tesseract) and facial recognition.

Retro Gaming Console — *August 2025*

- Designed custom PCB with RP2040 MCU, LCD, speaker, USB-C, and Li-ion battery.
- Programmed firmware bootloader and designed 3D-printed enclosure for final assembly.

FPV Drone — *April 2025 - June 2025*

- Designed and assembled an FPV drone with 3D-printed frame, using SpeedyBee F7 V3 50A Stack (ESC + FC), as the most relevant components.

Smart Ring Prototype — *March 2025*

- Built wearable ring using ESP32 + MPU6050 to detect gestures and transmit data.
- Designed and 3D-printed housing with focus on comfort and power efficiency.

SKILLS

Embedded Systems: ESP32, RP2040, Arduino; wireless communication (ESP-NOW, Wi-Fi, Bluetooth); sensor integration (MPU6050, IMUs, environmental sensors); motor control and encoder feedback
PCB & Circuits: EasyEDA, KiCad, SPICE simulations, Soldering & Debugging
Programming: C, C++, Python, MATLAB, TypeScript, beginner experience with JavaScript, HTML, CSS
CAD & Prototyping: Fusion 360, 3D Printing, Mechanical Design
Tools: Git, Linux, VS Code, Cursor
Other: Machine Learning (regression models), Cost Analysis (Formula Student)

LANGUAGES & CERTIFICATIONS

Languages: Italian (Native), English (C1/C2)
Certifications: Seal of Biliteracy - Awarded by the State of Michigan