

# Andrea Ghirlanda

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## Education

|                |  |
|----------------|--|
| 2023 – Present | <b>ETH Zürich</b><br><b>Biomedical Engineering MSc</b><br>Specialization: Bioelectronics   |
| 2020 – 2023    | <b>ETH Zürich</b><br><b>Electrical Engineering and Information Technology BSc</b><br><b>GPA: 5.06</b>  |
| 2016 – 2020    | <b>Liceo Cantonale di Lugano 1</b><br>Profile: Applied Mathematics and Physics<br>Matura Project: Eye – Tracking with Convolutional Neural Network, Grade: 6 |

## Further Practical Experience

**Bachelor Thesis:** Real time prediction of sepsis onset with machine learning models, **Grade: 5.75**

- Data analysis and preprocessing
- Machine learning model development and testing
- Optimization of the model's size and deployment on Microcontroller

## Languages

|                |               |
|----------------|---------------|
| <b>Italian</b> | Mother tongue |
| <b>English</b> | Fluent        |
| <b>German</b>  | Fluent        |
| <b>French</b>  | Fluent        |

## IT – Skills

### Programming Languages

- C++ Advanced
- C Intermediate
- Python Advanced
- JavaScript Intermediate
- RISC-V Assembly Beginner

### Further IT - Skills

- Machine Learning
- Web Development (JavaScript, HTML, CSS)
- Embedded Systems

## Personal Details

|                    |                   |
|--------------------|-------------------|
| <b>Birth Date</b>  | 27.02.2001        |
| <b>Birthplace</b>  | 6967 Dino, Lugano |
| <b>Nationality</b> | Swiss             |

## Hobbies

- Sports: Ice Hockey, Running, Hiking, Snowboarding
- Playing guitar, reading, cooking