

Marc Bachelet

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EDUCATION

RWTH Aachen University <i>B.Sc. Electrical Engineering and Information Technology</i>	Oct. 2023 – Present
École Polytechnique Fédérale de Lausanne (EPFL) <i>B.Sc. Microengineering (GPA 5.23/6, transferred to RWTH after 4 semesters studied for health reasons)</i>	2019 – 2023 Lausanne
Lycée Franco-Allemand (LFA) <i>German-French Abitur (GPA: 20.0/20)</i>	2007 – 2019 Buc, France

WORK EXPERIENCE

Metalworking Internship <i>École technique des Métiers Lausanne</i>	July 2023
• Metalworking with turning and milling machines, welding, and assembling a functional Stirling engine	
Assembly Internship <i>Airbus Defence and Space</i>	July 2017 Immenstaad
• Production line of the Do-DT25 target drone	

Tutor <i>Self-employed and at university</i>	2016 – Present
• Tutoring in Mathematics, Physics, and Chemistry for students grades 4–12	
• Tutor positions in Higher Mathematics 1 (EPFL), Computer Science 1 (RWTH)	

SAMPLE PROJECTS

Institute project at photonics lab <i>Matlab</i>	Mar 2024 – Sep 2024
• Implementation of Fourier-Transform Infrared (FTIR) spectroscopy using a Michelson interferometer	
EPFL Spacecraft Team <i>Kicad, C++, Fusion360</i>	Sept 2022 – July 2023
• Design, testing, and integration of a PCB as part of the CanSat program	
• Successful launch and recovery of a can-sized satellite using fins and parachute	
Miniature Elevator with AVR Microcontroller <i>assembly, serial communication</i>	Feb 2022 – July 2023
• Programmed an elevator model in assembly language	

TECHNICAL SKILLS

Programming: C/C++, Python, Matlab, Git, PyTorch, LaTeX
Hardware Design: Kicad, basics in Fusion 360 and Catia V5
Electronics: Prototyping with breadboards and PCB assembly; programming in microcontrollers (ESP32, Arduino)

LANGUAGES

German: Native
French: Native
English: C1