


Michael RICHTER

23 years old (20.01.2000) | Swiss, Swede
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Curious and Inquisitive
Excellence-pursuing
Purpose-driven
Ambitious

EDUCATION

EPFL, Swiss Federal Institute of Technology

Lausanne, Switzerland

Master of Science in Robotics Engineering with a focus on Mobile Robotics

Sept. 2021 - Present

- **Relevant courses:** Applied data analysis, Deep learning for optical imaging, Mechanical product design and development, Embedded systems, Image analysis and pattern recognition.

EPFL, Swiss Federal Institute of Technology

Lausanne, Switzerland

Bachelor of Science in Micro-Technical engineering

Sept. 2018 - June 2021

- **Relevant courses:** Signals and systems I & II, Sensors, Optical engineering, Micro-fabrication technologies.

Gymnase de Nyon

Nyon, Switzerland

High school; Swiss Maturité Fédérale, focus on Math and Physics

Aug. 2015 - Jun. 2018

ACADEMIC PROJECTS

Formula Student

EPFL

EPFL Racing Team - Power electronics division

Sept. 2022 - Aug. 2023

- Power electronics modelling and Power Control of a four-wheel drive electric race car
- State-of-Charge estimation of the High-Voltage Battery
- Design and manufacturing of the CFRP container for the Inverters

Formula Student

EPFL

EPFL Racing Team - Low voltage division

Sept. 2021 - Aug. 2022

- Design, planning and manufacturing of the mechanical integration of electronics

Robotics semester project

EPFL

Reconfigurable Robotics Lab

Feb. 2022 - Jul. 2022

- Origami inspired haptic stylus, prototyping and software development

TECHNICAL SKILLS

Programming languages

- **Experienced:** Python, C/C++, Matlab/Simulink
- **Basics:** VHDL, LabView, HTML/CSS, Javascript

CAD software

- Autodesk Fusion 360, 3DEXperience, Catia V5

Other

- **Rapid Prototyping :** 3D Printing, Laser Cutting, CNC Machining, Lathe
- **Composite Manufacturing :** Vacuum resin infusion, Wet layup, Prepreg
- **Software :** LaTeX, Git, Office suite

WORKING EXPERIENCE

Teaching assistant: 1st Bachelor year Mechanical Physics classes at EPFL (8h/week)

Sept. 2021 - Dec. 2022

Private tutor: Up to Bachelor students in Math, Physics, Chemistry and Programming

Sept. 2014 - Jul. 2023

LANGUAGES

Bilingual: **English** (C2), **French** (C2).

Limited working: **German** (B2), **Swedish** (B1). Genuine desire to improve these languages by full immersion.

EXTRA CURRICULAR

Hobbies & sports: Passionate about Skiing and Bouldering, Regularly play Tennis and Volleyball

Music: Guitar player, dabbled in playing bass, drums and piano