# Eric RICHTER

Born: 20.08.1998 | Citizenship: Switzerland, Sweden
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Curious and Inquisitive
Excellence-pursuing
Purpose driven
Ambitious

## EDUCATION

**ETHZ, Swiss Federal Institute of Technology** — Zürich, Switzerland
*MSc in Mechanical Engineering. Major in robotics/control and management.* ***GPA:*** *5.39 (max 6)* — *Sept. 2022 - Present*

**EPFL, Swiss Federal Institute of Technology** — Lausanne, Switzerland
*MSc in Micro- Engineering. Major in solar technologies.* ***GPA:*** *5.30 (max 6). (discontinued)* — *Sept. 2021 - Aug. 2022*

**EPFL, Swiss Federal Institute of Technology** — Lausanne, Switzerland
*BSc in Micro- Engineering.* ***GPA:*** *5.23 (max 6)* — *Sept. 2018 - June 2021*

**USJ, Saint-Joseph University of Beirut** — Beirut, Lebanon
*Off-Curriculum Studies* — *Sept. 2017 - Dec. 2017*

## WORKING EXPERIENCE

**Sensirion** — Stäfa, Switzerland
*R&D Engineering Intern* — *Sept. 2023 - Present*
- Development of a next generation high accuracy low cost humidity reference.
- Technical support for multiple humidity and temperature related projects.

**EPFL** — Lausanne, Switzerland
*Teaching Assistant in Mathematical Analysis* — *Feb. 2021 - Jul. 2021*

**Swiss Army** — Switzerland
*Air force Interlligence* — *Feb. 2018 - May. 2018*

## ACADEMIC PROJECTS

**Machine Learning Semester Project** — ETHZ - UZH
*Emerging Intelligent Substrates Group at the Institute for Neuro-Informatics (INI)* — *Mar. 2023 - Jul. 2023*
- Discovery of a low-power neural architecture through evolutionary methods for solving the spiking Heidelberg digits (SHD) dataset..

**Nano-Engineering Semester Project** — EPFL
*Micro-Systems Laboratory* — *Feb. 2021 - Jun. 2022*
- Design, COMSOL simulation, and iterative improvement of superconducting electromagnetic resonators for high accuracy and highly parallel temperature measurements in cryostats for quantum computers.

**Robotics Semester Project** — EPFL
*Mobile Robotics Lab as a part of the Hiveopolis Project* — *Sept. 2021 - Jan. 2022*
- Design, fabrication and automation of a 1D measurement system for vibrational characterization of tweaked bee combs for human-bee communication.

## EXTRACURRICULAR PROJECTS

**ShARE's Leadership Program** — EPFL - International
*Consultant and Team Leader* — *Sept. 2020 - Nov. 2022*
- Interim Vice-Presidence (2022): Planning and organization of the 2022 Autumn Semester.
- Analyst for a start-up (2022): Second hand online clothing platforms.
- Analyst for a start-up (2021): High end tech-watches.
- Analyst for a start-up (2021): AI enhanced stethoscope for lung disease diagnosis.
- Exercise analysis (2020): The potential for renewable energies in the Lebanese energy mix.

**International Genetically Engineered Machine Competition (IGEM)** — EPFL
*Head Engineer and Laboratory Technician* — *Feb. 2021 - Nov. 2021*
- Project: project selection, definition, literature review, and planning of experimental and technical tasks.
- Communication: stakeholder interviews, Sensitization of school children, production of a podcast (Spotify link here).
- Technical: design, prototyping, and testing of a raspberryPi controlled bioreactor for continuous treatment of water. Laboratory support for biological and chemical procedures and experiments.

## TECHNICAL SKILLS

### Software

- Programming Languages: Python, C/C++, Matlab, Arduino, SQL, VHDL, HTML/CSS, Javascript, C#, Java
- CAD: Autodesk Fusion 360, Catia V5
- FEM: COMSOL
- PCB design: LibrePCB
- Version Control: Git

### Laboratory Experience

- Clean room experience, Synbio laboratory experience, chemistry laboratory experience

## LEADERSHIP

**Vice-Presidence for EPFL at ShARE's Leadership Programme** EPFL

- Planning and organizing the local association with respect to the University and business partners

**Team Leader at ShARE's Leadership Programme** EPFL

- Training of the next generation of "do well do good" ShARE EPFL consultants

**Event Organizer** ETHZ - EMC2

- Planning and organization of events for students in the Masters of energy systems and technologies program

## LANGUAGES

**English** (Native), **French** (Native), **German** (B2), **Swedish** (Spoken B1), interest in **Levantine Arabic** (A2), and **Italian** (A1)

## Personal Interests

**Sports**: Skiing/Snowboarding, Bouldering, Tennis, Ice Hockey
**Music**: Formally trained as a pianist, informally playing any other instrument I can get my hands on

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