


Eric RICHTER

Citizenship: Switzerland, Sweden

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Curious & Inquisitive
Purpose Driven
Self-Disciplined
Unyielding
Open

EDUCATION

ETHZ, Swiss Federal Institute of Technology

MSc in Mechanical Engineering. Major in robotics/control and management. GPA: 5.39 (max 6)

Zürich, Switzerland

Sept. 2022 - Present

EPFL, Swiss Federal Institute of Technology

MSc in Micro- Engineering. Major in solar technologies. GPA: 5.30 (max 6). (discontinued)

Lausanne, Switzerland

Sept. 2021 - Aug. 2022

EPFL, Swiss Federal Institute of Technology

BSc in Micro- Engineering. GPA: 5.23 (max 6)

Lausanne, Switzerland

Sept. 2018 - June 2021

USJ, Saint-Joseph University of Beirut

Off-Curriculum Studies

Beirut, Lebanon

Sept. 2017 - Dec. 2017

WORKING EXPERIENCE

Sensirion

R&D Engineering Intern

Stäfa, Switzerland

Sept. 2023 - Present

- Development of a next generation high accuracy low cost humidity reference.
- Technical support for multiple humidity and temperature related projects.

EPFL

Teaching Assistant in Mathematical Analysis

Lausanne, Switzerland

Feb. 2021 - Jul. 2021

Swiss Army

Intelligence Soldier in the Air Force

Switzerland

Feb. 2018 - May. 2018

ACADEMIC PROJECTS

Machine Learning Semester Project

Emerging Intelligent Substrates Group at the Institute for Neuro-Informatics (INI)

ETHZ - UZH

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

Micro-Systems Laboratory

EPFL

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

Mobile Robotics Lab as a part of the Hiveopolis Project

EPFL

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

Consultant and Team Leader

EPFL - International

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)

Head Engineer and Laboratory Technician

EPFL

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

Research

- DOE: Design of Experiments

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, Boulderling, Tennis, Ice Hockey

Music: Formally trained as a pianist, informally playing any other instrument I can get my hands on

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