


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 <i>MSc in Mechanical Engineering. Major in robotics/control and management. GPA: 5.39 (max 6)</i>	Zürich, Switzerland <i>Sept. 2022 - Present</i>
EPFL, Swiss Federal Institute of Technology <i>MSc in Micro- Engineering. Major in solar technologies. GPA: 5.30 (max 6). (discontinued)</i>	Lausanne, Switzerland <i>Sept. 2021 - Aug. 2022</i>
EPFL, Swiss Federal Institute of Technology <i>BSc in Micro- Engineering. GPA: 5.23 (max 6)</i>	Lausanne, Switzerland <i>Sept. 2018 - June 2021</i>
USJ, Saint-Joseph University of Beirut <i>Off-Curriculum Studies</i>	Beirut, Lebanon <i>Sept. 2017 - Dec. 2017</i>

WORKING EXPERIENCE

Sensirion <i>R&D Engineering Intern</i> <ul style="list-style-type: none">Development of a next generation high accuracy low cost humidity reference.Technical support for multiple humidity and temperature related projects.	Stäfa, Switzerland <i>Sept. 2023 - Present</i>
EPFL <i>Teaching Assistant in Mathematical Analysis</i>	Lausanne, Switzerland <i>Feb. 2021 - Jul. 2021</i>
Swiss Army <i>Air force Interlligence</i>	Switzerland <i>Feb. 2018 - May. 2018</i>

ACADEMIC PROJECTS

Machine Learning Semester Project <i>Emerging Intelligent Substrates Group at the Institute for Neuro-Informatics (INI)</i> <ul style="list-style-type: none">Discovery of a low-power neural architecture through evolutionary methods for solving the spiking Heidelberg digits (SHD) dataset..	ETHZ - UZH <i>Mar. 2023 - Jul. 2023</i>
Nano-Engineering Semester Project <i>Micro-Systems Laboratory</i> <ul style="list-style-type: none">Design, COMSOL simulation, and iterative improvement of superconducting electromagnetic resonators for high accuracy and highly parallel temperature measurements in cryostats for quantum computers.	EPFL <i>Feb. 2021 - Jun. 2022</i>
Robotics Semester Project <i>Mobile Robotics Lab as a part of the Hiveopolis Project</i> <ul style="list-style-type: none">Design, fabrication and automation of a 1D measurement system for vibrational characterization of tweaked bee combs for human-bee communication.	EPFL <i>Sept. 2021 - Jan. 2022</i>

EXTRACURRICULAR PROJECTS

ShARE's Leadership Program <i>Consultant and Team Leader</i> <ul style="list-style-type: none">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.	EPFL - International <i>Sept. 2020 - Nov. 2022</i>
International Genetically Engineered Machine Competition (IGEM) <i>Head Engineer and Laboratory Technician</i> <ul style="list-style-type: none">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.	EPFL <i>Feb. 2021 - Nov. 2021</i>

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
- 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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