

# ERIC RICHTER

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## SUMMARY

My career goal is to bring a genuine contribution to the world. While I do that, I'll push to tackle the hardest challenges, to grow to my limit, and to stay true to my values of kindness, curiosity, positivity, creativity, and high quality.

## EDUCATION

<b>BU, Boston University</b> <i>Research Scholar</i>	Boston MA, USA <i>Sep. 2024 - Feb 2025 (Expected)</i>
<b>ETHZ, Swiss Federal Institute of Technology</b> <i>MSc in Mechanical Engineering GPA: 5.39 (max 6)</i>	Zürich, Switzerland <i>Sep. 2022 - Mar 2025 (Expected)</i>
<b>EPFL, Swiss Federal Institute of Technology</b> <i>MSc in Micro- Engineering GPA: 5.30 (max 6) (discontinued)</i>	Lausanne, Switzerland <i>Sep. 2021 - Aug. 2022</i>
<b>EPFL, Swiss Federal Institute of Technology</b> <i>BSc in Micro- Engineering GPA: 5.23 (max 6)</i>	Lausanne, Switzerland <i>Sep. 2018 - Jun 2021</i>
<b>USJ, Saint-Joseph University of Beirut</b> <i>Off-Curriculum Studies</i>	Beirut, Lebanon <i>Sep. 2017 - Dec. 2017</i>
<b>CESS, Gymnase de Nyon (High-School)</b> <i>Specialization in Physics and Music GPA: 5.49 (max 6)</i> <ul style="list-style-type: none"><li>• Prize of best student in Physics</li><li>• Prize of best student in Biology</li></ul>	Nyon (VD), Switzerland <i>Sep. 2014 - Jul. 2017</i>

## WORKING EXPERIENCE

<b>Sensirion</b> <i>R&amp;D Engineering Intern</i> <ul style="list-style-type: none"><li>• Main Task: Proof of concept of a next generation humidity reference.</li><li>• Results: State of the art accuracy achieved with 1/100th price.</li></ul>	Stäfa, Switzerland <i>Sep. 2023 - Present</i>
<b>EPFL</b> <i>Teaching Assistant in Mathematical Analysis</i>	Lausanne, Switzerland <i>Feb. 2021 - Jul. 2021</i>
<b>Swiss Army</b> <i>Intelligence Soldier in the Air Force</i>	Switzerland <i>Feb. 2018 - May. 2018</i>

## ACADEMIC PROJECTS

<b>Mass Transport Master's Thesis</b> <i>Lubner Group</i> <ul style="list-style-type: none"><li>• Task: Understanding mass transport phenomena through numerical models.</li><li>• Results: Ongoing</li></ul>	ETHZ - BU <i>Sep. 2024 - Feb. 2025</i>
<b>Machine Learning Semester Project</b> <i>Emerging Intelligent Substrates Group at the Institute for Neuro-Informatics (INI)</i> <ul style="list-style-type: none"><li>• Task: Discovery of a low-power neural architecture through evolutionary methods for solving the spiking Heidelberg digits (SHD) dataset.</li><li>• Results: Evolutionary method proven ineffective for this task.</li></ul>	ETHZ - UZH <i>Mar. 2023 - Jul. 2023</i>

## Nano-Engineering Semester Project

EPFL

*Micro-Systems Laboratory*

*Feb. 2021 - Jun. 2022*

- Task: Design, COMSOL simulation, and iterative improvement of superconducting electromagnetic resonators for high accuracy and highly parallel temperature measurements in cryostats for quantum computers.
- Results: Scientific paper abstract is submitted for presentation at CERN.

## Robotics Semester Project

EPFL

*Mobile Robotics Lab as a part of the Hiveopolis Project*

*Sep. 2021 - Jan. 2022*

- Task: Design, fabrication and automation of a 1D measurement system for vibrational characterization of tweaked bee combs for human-bee communication.
- Results: Working and automated measurement system submitted and built upon.

## EXTRACURRICULAR PROJECTS

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### ShARE's Leadership Program

EPFL - International

*Consultant and Team Leader*

*Sep. 2020 - Nov. 2022*

- Interim Vice-Presidence (2022): Planning and organization of the 2022 Autumn Semester.
- Consultant for a start-up in Online Shopping (2022): Second hand online clothing platforms.
- Consultant for a start-up in Luxury (2021): High-end tech-watches.
- Consultant for a start-up in Medical Devices (2021): AI enhanced stethoscope for lung disease diagnosis.

### International Genetically Engineered Machine Competition (IGEM)

EPFL

*Head Engineer and Laboratory Technician*

*Feb. 2021 - Nov. 2021*

- Description: design and synthesis of a yeast cell capable of filtering copper from water for depollution of the soils in vineyards.
- 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 bioreactor for continuous treatment of water. Laboratory support for biological and chemical procedures and experiments.
- Results: Gold medal, prize for best website, nomination for best project in the environmental category.

## LEADERSHIP

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### Event Organizer for the Energy Students Student Committee (EMC2)

ETHZ - EMC2

- Main Task: Organization and hosting of a panel discussion between experts on carbon pricing policies in Europe and in Switzerland and their alternatives.

### Vice-President for EPFL at ShARE's Leadership Programme

EPFL

*Vice-President*

*Mar. 2022 - Dec. 2022*

- Task: Planning and organizing the local association with respect to the university and business partners.
- Results: Secured a set of start-ups and teams to work on consulting projects. Set-up training plan for mentors to new arrivals in the association.

### Team Leader at ShARE's Leadership Programme

EPFL

*Mentor*

*Sep. 2021 - Dec. 2021*

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

## LANGUAGES

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**English** (Native), **French** (Native), **German** (B2-C1), **Swedish** (B1), **Italian** (A2), **Levantine Arabic** (A1)

## PERSONAL INTERESTS

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**Sports:** Mountain Sports, Water Sports, Boulderling, Tennis, Ice Hockey.

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