

Eric Richter

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Education

ETH | Zürich, Switzerland

Master of Science in Mechanical Engineering (GDP 5.49/6)

March 2025

- Majored in micro- nanosystems and robotics

EPFL | Lausanne, Switzerland

Master of Science in Microengineering (Discontinued after 61ECTS, GDP of 5.3/6)

July 2022

Bachelor of Science in Microengineering (GDP of 5.23/6)

July 2021

- Majored in MEMS related electrical, mechanical, and materials engineering

USJ | Beirut, Lebanon

Off-Curriculum International Relations Studies

December 2017

Relevant Experience

Boston University | Boston, MA USA

Research Fellow

September 2024 - June 2025

- Implemented a set of explicit python models for numerical simulation of advection, diffusion, adsorption, heat transfer.
- Designed the stencil used for making the 1st functional thermal wave sensor on multi-layered batteries.
- Challenged the design of an adsorption test chamber with COMSOL simulations, redesigned and built the improved version, which runs 6x faster with completely validated physics.

Sensirion AG | Stäfa, Switzerland

Engineering Intern

September 2023 - February 2024

- Achieved 0.01°C state-of-the-art accuracy with a self-made humidity sensor costing 1% of the alternatives.
- Iterated through 3 rapid hardware prototyping cycles.
- Ensured high stability using non-linear PID control.

EPFL | Lausanne, Switzerland

Research Assistant at LMIS1

February - June 2022

- Generated insights for the design of a thermally sensitive electro-magnetically coupled superconducting resonator.

Research Assistant at MOBOTS

September 2021 - January 2022

- Designed, constructed and automated a Doppler Laser Vibrometer mechanical plane surface measurement system using Raspberry Pi and linear stages for bee comb characterization.

ShARE EPFL | Lausanne, Switzerland

Vice President, Mentor, Consultant

September 2020 - November 2022

- Led and mentored 25+ members on their respective cases.
- Collaborated with EPFL's startup accelerator by completing the product-market fit analysis for 3 startups.

Relevant Achievements

Panel Discussion | Zürich, Switzerland

Host, Event Organizer

January - May 2024

- Moderated a debate between lobbyists and academics around carbon pricing and its alternatives in front of a 200+ person audience.

iGEM Competition | Cambridge, MA (USA)

Head Engineer, Gold Medal, Best Website, Best Environmental Project Nomination

February - November 2021

- Iterated through the design of a bioreactor for bioremediation of heavy metals from the environment.
- Managed stakeholders, outreach, and communication around the issues studied during the 9 month project.

Certifications

SHARE's Leadership Programme of Excellence | International

June 2022

Arabic Elementary Level | Saifi Institute for Levantine Arabic of Beirut

December 2017

Swedish Conversational Level | Folkuniversitetet in Stockholm

July 2015

Conservatory Certificate For End Of Piano Studies | COV, Nyon

July 2017

Additional Skills

Languages: English(Native); French(Native); German(Proficient); Swedish(Conversational)

Programming proficiency: Python, C++, C, VHDL

Engineering Software: Multiphysics simulation (COMSOL), CAD (Catia V5, Fusion 360), Electrical simulation (LtSpice), Hardware programming (Vivado Suite, Quartus)

Clean room Processes: Photolithography, Sputtering, Bosch process, HF etching, ALD, Wire bonding, SEM

Personal: Multidisciplinary; Multicultural; Positive; Self and objective driven