Eric RICHTER

Citizenship: Switzerland, Sweden
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Curious & Inquisitive
Purpose Driven
Self-Disciplined
Unyielding
Open

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
Intelligence Soldier in the Air Force *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

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, 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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