





Elías Hauksson

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EDUCATION

École polytechnique fédérale de Lausanne Jun 2025
B.S. Electrical and Electronic Engineering
Kantonsschule Zug Jun 2021
Matura, Physics and Applied Mathematics

COURSEWORK

Courses: Analysis, Linear Algebra, Probability & Statistics, Mechanics, Thermodynamics, Electromagnetism, Project oriented programming, Data Science, Logic systems, Circuit & Systems, Electronics, Microcontrollers, Signals & Systems, Electromagnetics: Transmission lines & Field computations

SKILLS

Programming: C/C++, Python, Bash, Clojure, Java
Libraries/Frameworks: Numpy, Pandas, Matplotlib, Tensorflow
Tools/Platforms: Linux, STM32, Arduino, Raspberry Pi, KiCAD, FreeCAD, CATIA
Languages: German (native), Icelandic (native), English (proficient), French (intermediate)

PROJECTS

Avionics Module for Model Rocket | *C++, Arduino* 2022
– Developed an avionics module for a LV1 model rocket, incorporating telemetry and sensor technology for flight monitoring.
– Implemented software to trigger recovery events, optimizing the rocket's safe descent and recovery.
– Collaborated in a team setting, utilizing skills in electronics and programming to contribute to a key component of the rocket.

Plant Health Monitor | *Python, OpenCV* 2021
– Developed a computer vision-based plant health monitor for matura thesis.
– Implemented NDVI analysis using dual-camera setup to accurately detect plant health anomalies.
– Demonstrated independent project completion skills in image processing and data analysis.

EXPERIENCE

Hauksson Weine GmbH | *Robotics Engineer* Jul 2022 - Dec 2022
– Engineered and implemented enhancements to a vineyard rover platform, including hardware and software components
– Designed and trained a TensorFlow-based AI model to enable autonomous vineyard navigation for the rover.
– Managed the project independently, gaining hands-on experience in robotics and AI programming.

Swiss Post | *Data Analysis Intern* Sep 2019 - Oct 2019
– Analyzed photovoltaic system performance on postal centers to optimize cleaning schedules for more efficiency.
– Conducted advanced data analysis on customer behaviour to identify delivery anomalies and improve parcel delivery services.

HOBBIES

3D Printing: I enjoy 3D printing to bring creative ideas to life.
Mountaineering: I explore mountains through trail running, climbing, and hiking.