

NOAH HÜSSER

CONTACT

noah@huesser.dev
+41 79 960 7130
<https://github.com/Yatekii>

PROFESSIONAL SKILLS

Embedded Engineering
Software Development
SRE
Project Management

ENGINEERING TOOLS

Linux/Unix, Bash
Docker, K8S, Nomad, Terraform
Gitlab CI, Github Actions
Splunk, Grafana, Elasticsearch
Jupyter, Scipy, Numpy, Pandas
Kafka, Redis, Postgres
Git

PROGRAMMING

frequently used
Rust, TypeScript, Python,
Dart, C, SQL

used in the past
Bash, C#, C++, Java, LaTeX, Tcl, PHP,
VHDL, VB.NET

LANGUAGES

German *mother tongue*
English *fluent*
French *experienced*
Spanish *basic*
Polish and Arabic *learning*

ACTIVITIES

Programming, Electronics,
Kite Surfing, Ju Jitsu,
Running

REFERENCES

on request

Last updated 2025-10.

PRACTICAL EXPERIENCE

LEAD EMBEDDED AND ELECTRICAL ENGINEER - SG-1

Helsing, June 2025 to present in Zürich

Firmware tech lead of the UUV SG-1 in a team of 4. Building everything from the ground up in Rust.

- Bootstrapped the architecture from the ground up enabling rapid testing and confident deployments.
- Overhauled the electrical design to address electrical and manufacturing issues cutting iteration times by entire days per feature.
- Bootstrapped the electrical RND lab in the factory.
- Introduction of new members to embedded best practices.

SENIOR SOFTWARE ENGINEER - RUST BACKEND

Kraken, December 2021 to February 2025 in Zürich

Maintainer of the microservice routing and access controlling all internal RPC. Focus on service stability, performance, technology choices and DX.

- Managing all releases to **10 million users**.
- Work on **latency, operations and CI improvements** as well as **new features**.
- **Onboarded 5 new team members** into engineering workflows.
- **On call** incident and vulnerability response.

CO-FOUNDER & LEAD SOFTWARE ENGINEER - PYTHON, DART, C

Siglis (part-time), August 2020 to August 2021 in Zürich

Developed a smart switch with **Zigbee and Bluetooth** communication (zigfred.ch).

- Built the **manufacturing pipeline & oversight** in **Python** and **TypeScript**.
- Built a **mobile app** to configure and control switches - in **Dart**.
- Implemented automated **DFU** including bootloader, transfer via bluetooth and automatic rollbacks - in **C**.

CO-FOUNDER & LEAD SOFTWARE ENGINEER - RUST, C, PYTHON, C#

Technokrat, May 2017 to September 2021 in Zürich

Built software for **embedded devices**, cloud services and web applications.

- Simulated variations of coil arrays for wireless power transfer in **Python** and **Rust**, which resulted in **two patents**.
- Designed a system to **assign bushings** to different curing vessels and plan the curing process.
- Designed an EVSE controller - in **Rust** - for J1772 based charging deployed to **thousands of EV charging stations**.

SENIOR SOFTWARE ENGINEER - C#, VB.NET

ABB, Jul 2016 to March 2018 in Zürich

- Created an **MES** to supervise the manufacturing of **7000 bushings/year** (backend in **C#** and **SQL**, frontend in **TypeScript**).
- Developed a UI CAD tool to dimension bushings (C#, VB.Net, WPF UI).
- Larger scale data analysis in **Python**.

PUBLICATIONS AND OPEN SOURCE

PROBE-RS EMBEDDED TOOLCHAIN

Project Lead, Mar 2019 to present in probe.rs

The toolkit allows to control **embedded ARM and RISC-V MCUs** to be controlled from a host. The project offers:

- a library to **control targets from host code**
- **CLI tools** to flash and log data from targets
- A **VSCode debugger plugin**

EDUCATION

FHNW BRUGG-WINDISCH BSc in EE and IT, 2016 to 2017 in Windisch

ETH ZÜRICH BSc in EE and IT (unfinished), Sep 2013 to Feb 2016 in Zürich