

# NOAH HÜSSER

## CONTACT

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<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 2024-02.

## PRACTICAL EXPERIENCE

### SENIOR SOFTWARE ENGINEER - RUST BACKEND

Remote for a Fintech Company, December 2021 to present 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.

### FOUNDER & LEAD SOFTWARE ENGINEER - RUST BACKEND

[forged.dev](https://forged.dev), September 2021 to present in Zürich  
Built a complete **Rust based cloud service for PCBA manufacturing automation** with factory telemetry and automated programming and testing.

### 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](https://zigfred.ch)).

- Built a **manufacturing pipeline** with real time telemetry from the factory, overseeing the production - 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](https://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