



NOAH HÜSSER

Nationality: Swiss
Date of Birth: 12th January 1991

CONTACT

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ACTIVITIES

Programming, Electronics,
Server Admin, Ju Jitsu

PROFESSIONAL SKILLS

Software Development
Embedded Systems
FPGA Programming
Electrical Prototyping
Project Management

LANGUAGES

German *mother tongue*
English *fluent*
French *experienced*

ENGINEERING TOOLS

Altium/KiCad
Linux/Unix Administration
Jupyter, Scipy, Numpy, Pandas
MATLAB
Autodesk Inventor

PROGRAMMING

frequently used
Python, C, VHDL, Tcl,
JavaScript, SQL, LaTeX

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

MISCELLANEOUS

Git/SVN
Microsoft Office
Photoshop, InDesign

REFERENCES

on request
Last updated 2021-09.

PRACTICAL EXPERIENCE

TECHNOKRAT

Co-Founder, Software Engineer, May 2017 to October 2021 in Schlieren
Founded a consulting company, all things electrical engineering with 3 colleagues.
Realizing Software from embedded devices to cloud services.

SIGLIS

Co-Founder, Software Engineer, August 2020 to August 2021 in Schlieren
Founded a smart home company which develops a smart switch (zigfred.ch). Developing and manufacturing a product from start to finish. Responsibilities included mechanical design, mobile app and automated factory testing and provisioning.

ABB MICAFIL

Part Time Software Engineer, Jul 2016 to March 2018 in Altstetten
Development of a CAD tool to dimension bushings in VB.NET. Development of a system to monitor, analyze and control the production line of a bushing.

NEXUS TELECOM

Low Level C Programmer, Mai 2014 to Mai 2015 in Zürich
Porting the core C library from 32 to 64 bit.

VOLUNTEER EXPERIENCE

JU JITSU CLUB AARAU

Treasurer, Apr 2019 to present in Aarau

BASTLI, ETH ZÜRICH

President, Feb 2016 to Oct 2016 in Zürich
Treasurer, Feb 2015 to Feb 2016 in Zürich

EDUCATION

FHNW BRUGG-WINDISCH

BsC in EE and IT, Feb 2016 to Jan 2017 in Windisch

ETH ZÜRICH

BsC in EE and IT, Sep 2013 to Feb 2016 in Zürich

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 code
- CLI tools to flash and log data from targets
- A VSCode debugger plugin

FPGA BASED SPECTRUM ANALYZER

Bachelor Thesis at FHNW, Mar 2017 to Aug 2017 in Windisch
The tasks included, but were not limited to, the implementation of:

- CIC/FIR-filter-chains for data decimation
- A server to transmit data via WebSockets on an embedded Linux
- A GUI to retrieve data over WebSockets, transform and display it (JavaScript)

FPGA BASED OSCILLOSCOPE

Group Thesis at ETH Zürich, Sep 2015 to Dec 2015 in Zürich
The tasks included, but were not limited to, the implementation of:

- Recursive trigger logic to detect special signal patterns (VHDL)
- Kernel module for data reading and processing on an ARM Core A9 (C)
- GUI to retrieve data over TCP/IP, filter and display it (C++, Python, Qt5)