

# PROFILE OF NOAH HÜSSER

## BASICS

Nationality: CH

Date of Birth: 12th January 1991

## CONTACT

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Eggenstrasse 3

5616 Meisterschwanden  
Switzerland

## ACTIVITIES

Ju Jitsu, Programming,  
Electronics, Reading

## SKILLS

### PROFESSIONAL

Software Development  
Embedded Systems  
FPGA Programming  
Electronical Prototyping  
Problem Solving  
Project Management

### LANGUAGES

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

## TOOLS

### ENGINEERING

Altium/KiCad  
Shell  
Jupyter, Scipy, Numpy, Pandas  
MATLAB  
Inventor

### PROGRAMMING

*frequently used*  
Python, C, C++,  
JavaScript, SQL, LaTeX

*used in the past*  
VHDL, Java, C#, PHP, Bash

### MISCELLANEOUS

Git/SVN  
Microsoft Office  
Photoshop / InDesign

## EDUCATION

### FHNW BRUGG-WINDISCH BsC in EE and IT

February 2016 – present | Brugg-Windisch, CH

### ETH ZÜRICH BsC in Electrical Engineering and Information Technology

September 2013 – February 2016 | Zürich, CH

### ALTE KANTONSSCHULE AARAU Matura

Graduated 2012 | Aarau, CH

## PRACTICAL EXPERIENCE

### ABB MICAFIL Intern Software Development

July 2016 – present | Altstetten, CH

Development of various APIs and a CAD tool in VB/C#.

### BASTLI President

February 2016 – October 2016 | Zürich, CH

### Quaestor

February 2015 – October 2016 | Zürich, CH

### Active Member

September 2013 – present | Zürich, CH

Bastli is the student's electronics lab at ETH Zürich. With Bastli we realize various, cool engineering projects. Most of the things we create are assembled from parts salvaged from the Junkyard. Impressions on what we do at [www.bastli.ch](http://www.bastli.ch).

### NEXUS TELECOM Low Level C Programmer

Mai 2014 – Mai 2015 | Zürich, CH

Diverse work on a C library with focus on porting it from 32 to 64 bit.

### AFC AG - AIR FLOW CONSULTING Internship as a Programmer

December 2012 – April 2013 | Zürich, CH

Creation of various tools in Python, C# and VB, working as a one man team.

### WAPPLE.CH Webdesigner and Co-Founder

Janury 2007 – present | Zürich, CH

Webdesign for individuals, associations and companies in cooperation with a friend.

## PUBLICATIONS AND PROJECTS

### DESIGN AND IMPLEMENTATION OF AN FPGA BASED DATA LOGGING AND FAULT RECORDING SYSTEM FOR PWM

#### RECTIFIERS Group Thesis at ETH Zürich

September 2015 – December 2015 | Zürich, CH

- 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 the network, filter and display it (C++, Python, Qt5)

### 230V SWITCH Bluetooth Controlled Two Channel 230V Switch, Private Project

November 2015 – present | Zürich, CH

Design of PCB and Software that feature dimming, master/slave, timer and bluetooth control of ordinary power outlets. Proof of concept works.

### BACKDOOR Modular NFC Auth System, Private Project

December 2014 – June 2015 | Zürich, CH

A system to manage access on devices such as the door to our backyard or a beer dispenser.