

# NOAH HÜSSER

Nationality: Swiss  
Date of Birth: 12th January 1991

## CONTACT

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Switzerland

## ACTIVITIES

Ju Jitsu, Programming,  
Electronics, Reading,  
Server Admin

## SKILLS

### PROFESSIONAL

Software Development  
Embedded Systems  
FPGA Programming  
Electronical Prototyping  
Project Management

### LANGUAGES

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

## TOOLS

### ENGINEERING

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

### MISCELLANEOUS

Git/SVN  
Microsoft Office  
Photoshop / InDesign

## EDUCATION

### FHNW BRUGG-WINDISCH

BsC in Electrical Engineering and Information Technology,  
Feb 2016 to present in Windisch

### ETH ZÜRICH

BsC in Electrical Engineering and Information Technology,  
Sep 2013 to Feb 2016 in Zürich

### ALTE KANTONSSCHULE AARAU

Matura, Graduated 2012 in Aarau

## PRACTICAL EXPERIENCE

### ABB MICAFIL

Intern Software Engineer, Jul 2016 to present in Altstetten

Development in VB.NET on a CAD tool to dimension bushings. Development of various tools in VB.NET, C# and JS to smoothen the process from the design of a bushing to it's production.

### BASTLI

President, Feb 2016 to Oct 2016 in Zürich  
Active Member, Sep 2013 to present in Zürich

Bastli is the student's electronics lab at ETH Zürich. With Bastli we realize cool engineering projects such as:

- BIRD: An interactive LED dancefloor that is lit up when stepping onto it.
- SWARM 2: A collection of autonomous LED badges that can communicate over IR, react to sound and have capacitive touch input.

Impressions on what we do at [www.bastli.ch](http://www.bastli.ch).

### NEXUS TELECOM

Low Level C Programmer, Mai 2014 to Mai 2015 in Zürich

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

### AFC AG

Internship Software Engineer, Dec 2012 to Apr 2013 in Zürich

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

### WAPPLE.CH

Webdesigner and Co-Founder, Jan 2007 to present in Zürich

Webdesign for individuals and companies in cooperation with a friend.

## PUBLICATIONS AND PROJECTS

### FPGA BASED OSCILLOSCOPE

Group Thesis at ETH Zürich, Sep 2015 to Dec 2015 in Zürich

- 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)

### 230V SWITCH

Bluetooth Controlled Two Channel 230V Switch, Nov 2015 to present in Zürich

Design of a PCB and Software that feature dimming, master/slave, timer and bluetooth control of ordinary power outlets. A proof of concept is finished.

### BACKDOOR

NFC Auth System, Dec 2014 to Jun 2015 in Zürich

A system to manage access on devices such as Bastli's door to the backyard or our beverage vending machine.