

## »»» EDUCATION

Master Project: Development of an FPGA based value acquisition system for power electronics **Nuremberg Institut of Technology**  
Since 12/2020

- › Parallel operation of ADCs with a Xilinx UltraScale+ SoC FPGA
- › Digital signal processing of oversampled signals in hardware

Master Applied Research in Engineering Sciences **Nuremberg Institut of Technology**  
Since 10/2019

- › Hardware development for an SoC-FPGA based real-time processing system
- › Academic education in system engineering focused on HW-SW co design

Master Project: Development and Optimization of PCBs with Altium Designer **Nuremberg Institut of Technology**  
10/2019 - 06/2020

- › Development of an extension board for a real time processing system
- › Revision of the main board of a real time processing system

Graduated as B. Eng. Electrical Engineering and Information Technology (1.6) **Nuremberg Institut of Technology**  
10/2015 - 09/2019

- › Bachelor thesis: Development of an LED-based lighting unit for trains
- › Focus: System design of embedded systems including PCB design

Professional education in automation engineering (IHK) (91 of 100 points) **Siemens**  
08/2015 - 08/2018

- › Training in manual skills for the buildup of automated industry facilities
- › Training in programming of SIMATIC S7 Systems

School and Abitur **Gymnasium Isernhagen**  
09/2010 - 07/2015

- › Graduated with focus on nature sciences and mathematics with a final grade of 1.4
- › Engagement in several work groups, e.g. sound and light for theater

## »»» EXPERIENCE

Tutorials for students **Nuremberg Institut of Technology**  
10/2016 - 01/2018

- › Subjects: Electrical measuring, microcomputers, fundamentals of electrical engineering
- › Gained skills concerning presentation techniques and group leading

International internships on power plant construction sites **Siemens**  
07/2017 - 07/2018

- › Internship in the UAE (2017) and in Egypt (2018)
- › Gained field experience concerning real world requirements of technical systems

## »»» SIDE PROJECTS

- ✂ Woodworking and maintenance of bicycles
- 🚣 Rowing (2010 - 2019) and Triathlon (2019 - now)
- 📦 Setup and maintenance of a Docker based Nextcloud and an online community (website, forum and wiki)
- 🎵 Singer and bassist in several bands (2010 - 2017)



## CONTACT

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## PROGRAMMING LANGUAGES

</> C	●	●	●	●	○
</> C++	●	●	●	○	○
</> VHDL	●	●	●	○	○
HTML & CSS	●	●	●	○	○
🗄 SQL	●	○	○	○	○
Simatic S7	●	●	○	○	○
>_ Shell	●	●	○	○	○

## TOOLS

⚡ Altium Designer and EAGLE

● ● ● ● ○

🔑 git

● ● ● ● ○

🐳 Docker

● ● ● ○ ○

</> Xilinx Vivado

● ● ● ○ ○

## LANGUAGES

German

● ● ● ● ●

English

● ● ● ● ○

French

● ● ● ○ ○