#### Teufel Lautsprecher GmbH / Berlin

#### **Electronics Engineer - Innovation & Development**

since 02/2022

- Established new prototyping lab in new office space for products in pre-development.
- Planning and commissioning of lab including layout, choice of fabrication tools, coordination with architect etc.
- Collaborating across teams (embedded, electronics, UX, acoustic) to create prototypes and validate features and explore concepts for upcoming products.

## **Electronics Engineer - Innovation & Development (working student)**

05/2021 - 02/2022

- Designed and developed 2 electronic systems, one upcoming product prototype and one system for in-house use.
- My activities included schematic & PCB design in Altium, embedded programming, 3d modelling.

#### Human Computer Interaction Lab / Hasso-Plattner-Institute, Potsdam

Research Assistant

- 12/2019 06/2020
- Designed and developed a portable 6DOF haptic gaming console for blind people.
- Designed the electronics including: part selection, BOM, schematic capture and PCB routing in KiCad.
- Developed c++ firmware (motor control and SPI communication interface for precision encoders).
- Led the effort to produce 10 devices to be used for teaching undergraduates. Devices still in use 2022.
- Gave a lecture to bachelor students about PCB Design.

## HackHPI / Hasso-Plattner-Institute, Potsdam

# Founder & Main Organizer

2015 - 2019

- Founded and organized a yearly <u>hackathon</u> funded by IBM, SAP, Wikidata and others with topics including machine learning, health and sustainability.
- Led the organizer team, coordinated volunteers and communicated with partners & participants.
- Developed the concept, raised sponsorship money (8k first year, 20k second year) and managed the budget.
- Handed over the project after two years and stayed on team as advisor

#### Freigeist Lab / Berlin

#### **Embedded Systems Engineer, Hardware Engineer**

10/2018 - 03/2019

- Developed an embedded IoT framework in c++ for a hardware toolkit to communicate with a Python server.
- Designed the electronics, including: part selection, BOM, schematic capture and PCB routing in KiCad for a custom hardware toolkit including IOT sensors and actuators based on the ESP8266.

# Education

#### Hasso-Plattner-Institute, Potsdam

M. Sc. IT-Systems Engineering (final grade: 1.2) 04/2018 – 10/2021
Design Thinking Basic Track, link 10/2017 – 03/2018

- B. Sc. IT-Systems Engineering

10/2014 - 08/2017

# **Indian Springs School**, Alabama, US

- High School Diploma 10/2011 - 08/2012

# Community Engagement

**Student Club Leader** - <u>Club Connect(2016-2017)</u>: Led a 30-person student club dedicated to connecting students to potential employees through organizing dozens of events including career fairs, exchanges & other events. Awarded best student-club of the year (2017) award under my leadership.

## Skills

- Project management & Design thinking
- Software engineering (c, c++, python, javascript)
- Designing Schematics and PCBs with Altium, KiCad
- Embedded systems, microcontrollers and sensors
- 3D-modeling using Autodesk Fusion360
- Communication Protocols (SPI, I2C, USB PD, BLE, UART, DMX, USB PD)
- Oscilloscopes, logic analyzers, reflow-soldering
- Lasercutters, FDM/SLA printers and CNCs
- 5 years experience using Linux and git