

Employment

Founder **TubeCards** **Aug 2018 – Oct 2022**

- Developed a Spaced Repetition cross-platform app with 4.6 rating (over 500 reviews, more than 100k downloads). The app is available on all major platforms and allows users to learn flashcards while being supported by an algorithm deciding on the review dates for maximum learning efficiency. Available at <https://tubecards.app>. Flutter, Dart, TypeScript, React, NodeJS

Co-Founder **Soundbundle** **Mar 2022 – Okt 2022**

- Developed frontend and backend for audio equipment rental company. Available at <https://soundbundle.de>. React, BlitzJS, NestJS, Typescript

Student assistant **Technical University of Berlin** **Oct 2017 – Oct 2018**

- Improved existing brain-computer interface and analyzed associated experiments. C, R, JavaScript

Student assistant **Technical University of Berlin** **Oct 2014 – Mar 2016**

- Developed load balancing simulation for data centers. Java

Education

Berlin, Germany **Technical University of Berlin** **Oct 2013 – Aug 2018**

- B. SC. in Physics (Unfinished), Aug 2018.
- Coursework: Project Lab Mechanics & Optics; Project Lab Thermodynamic & Electrical Engineering
- B. SC. in Computer Engineering, Aug 2017.
- Coursework: Operating Systems; Distributed Systems; Algorithms; Software Engineering; Linear Algebra; Analysis II; Machine Learning; Robotics; Artificial Intelligence

Technical Experience

Projects

- **Physics** (2018). Developed python app to detect fog stripes (alpha and beta radiation) in a cloud chamber.
- **Machine Learning** (2018). Developed artificial intelligence with neural network for chess. Python
- **Robotics** (2017). 1st place out of 14 teams at university competition for programming a vacuum cleaner in a maze. ROS, C++
- **Processor** (2017). Developed 32 bit processor. VHDL
- **Circuit board** (2017). Designed, assembled and programmed circuit board for electric beer pong table. C, Assembly
- **Operating System** (2016). OS for an ARM-board with memory management, process scheduling and interrupts. C, Assembly

Additional Experience and Awards

- **Stackoverflow** (2022). More than 1000 points in Dart and Flutter. <https://stackoverflow.com/u/6169345>.
- **Dachboden E.V.** (2019). Co-founded a hacker club to develop light and audio projects. One meeting per week. Available at <https://dachboden.club>.
- **Project Euler Top 2%** (2017). Solved more than 80 problems with a maximum difficulty of 55%.
- **RoboCup**. 1st place RoboCup German Open (2011), 1st place RoboCup German Open (2012)

Languages and Technologies

- Dart; TypeScript; Python; Java; C; PostgreSQL; R; VHDL; Assembly; LaTeX;
- Vim; Docker; VSCode; Flutter; GitHub Action; React; NodeJS; NestJS; Git; GraphQL; Rest; Vercel