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EDUCATION

Technische Universität Berlin

Berlin, Germany

B.Sc. Electrical Engineering; GPA: 2.5; Focus on Electronics & Signal processing

Okt. 2020 - Dec. 2024

- o Focus areas: Electronics, communication system, FPGA development, signal processing
- o Projekte & Initiativen: RISE (web), Lead development of some electronics and software teams
- Thesis: Development and implementation of a homing and calibration routine for an exoskeleton (Note: 1.0), Department of biomedical engineering: Prof. Marc Kraft

Professional employment

Charité - Universitätsmedizin Berlin

Berlin, Germany

Research fellow

Apr. 2025 - Aktuell

- Development of hard software tools for diagnosis:
- Development of medical device type prototypes with with pharmaceutical companies:
- o Development of an EHR system for a rare disease center: Planning of software architecture and development lead
- Clinical research and application: Application of developed solutions with patients, as well as regular clinical research in neurology and rare neuromuscular diseases

Digital Health Accelerator at the BIH

Berlin, Germany

"gaitMATE" @ Digital Health Accelerator (Phase I & II)

Feb. 2024 - Current

- o Technical planning: Planning, preparation and prototyping of a novel tool for sensing disease progress in patients with a rare muscular disorder
- Development of a spin-off company: Business development tasks, coordinating with external development contractors

Charité - Universitätsmedizin Berlin

Berlin, Germany

Research assistant - Software engineering (Working student (80h/month))

Oct. 2021 - Mar.2025

- o Member of the Hahn lab for rare neuromuscular disorders:
- Software engineering: Software development for applications in clinical development.

Publications

- Pernice, H.F., Knorz, A., Wetzel, P.J., et.al. (2024). Neurological affection and serum neurofilament light chain in wild type transthyretin amyloidosis. Scientific Reports, 14(1) DOI.
- Zernikow, J., Grassow, L., Gröschel, J., Henrion, P., Wetzel, P.J., Spethmann, S. (2023). Clinical application of large language models: Does ChatGPT replace medical report formulation? An experience report. Innere Medizin, 64(11). DOI.

TECHNICAL SKILLS

• Programming languages: Good: C/C++ & Python, Basic: Java, Swift, JavaScript& Dart

Software: SAP HANA, SAP UI5, FHIR, Git, Cloudflare, Verilog, Linux & ROS2

Tools: KiCAD, Vivado, basic skills in Labview

Hardware: PCB-Layout, STM32, Arduino, UART, Motor control & Soldering, Measuring, etc.

Interests & Volunteering

• Voluntary Head of a School Theatre Technology Club ([BOSTAG](www.bostag.de)) since 2020: Youth work with around 20 students.