# HENDRIK STÄNDKER

hendrik.staendker@live.de | +49 15679 719468 | 59348 Lüdinghausen, Germany
www.henhar.github.io | hendrik-ständker-313694101 | HenHar

## SUMMARY

Motivated Programmer with a Master's degree in Informatics for the Natural Sciences. Proficient in writing clean code in Python, Dart and C++. Dedicated to Machine Learning, Computer Vision with Tensorflow, PyTorch, OpenCv and Cross-Platform Development with Flutter. Passionate about problem solving and eager to apply skills to new and challenging problems.

## EXPERIENCE

### Freealance Software Engineer | Machine Learning

05/24 – Ongoing | Germany

- Machine Learning/Computer Vision: Implementation of machine learning algorithms, training of object detection and classification models, object segmentation with instance analysis, automation with image processing
- AI: LLM-based chatbots, RAG integration with vector databases, LLM-based document analysis with OCR, workflow for validating appraisals with report sent via E-Mail or via Sharepoint
- Mobile App (Flutter): Skin Cancer Prediction App with a local classification model via LiteRT (Tflite) or via Cloud containerized in a Docker container. Global fuel price visualization app with Map View, Data is served via REST API and hosted on AWS (EC2).

### Working Student Medical Device Engineer

Stapleline Medizintechnik GmbH | 11/19 – 08/21 | Bochum

- Creation of a new product design for a suction rinse unit to reduce material usage in production, using CAD and 3D prototyping
- Revision of technical documents and IFUs according to MDR

### Working Student Machine Learning Engineer

Task9 GmbH | 10/18 – 05/19 | Bochum

- Proof of concept for a car dent detection system using Python, OpenCv and Tensorflow
- Documentation of possible solutions (deep learning based, pattern projection based distortion)

### Student Tutor

UoAS HSHL | 10/16 – 04/18 | Hamm

- Tutor in the prototyping lab 3D printing, laser cutting, CAD design)
- Biomedical Engineering Lab Assistant

### Student Assistant

Fraunhofer SYMILA (FIT) | 10/13 – 03/15 | Hamm

- General literature research
- Project-specific research for equipment and relevant information

## EDUCATION

### Master of Science: Informatics for the Natural Sciences

Bielefeld University | 10/18 – 04/22 | GPA: 1.5

Thesis: Input Normalization of Optical Flow with spiking neural networks and the sEMD

### Bachelor of Engineering: Biomedical Engineering (Subject: Computer Science)

University of Applied Sciences Hamm-Lippstadt | 10/14 – 09/18 | GPA: 1.6

Thesis: Image Classification of plant leaves with the machine learning algorithms Random Forest and Nearest Neighbor

## INTERNSHIPS

### Research Internship

National Chung Cheng University

10/15 – 02/16 | Chiayi, Taiwan

Computational Intelligence Lab, Prof. Chuan-Kang Ting

- Topic: Medical image registration with Evolutionary Strategies

## SKILLS

Python | Flutter/Dart | C++ | HTML/CSS/Javascript

SQL/PostgreSQL | Vector DB, RAG | Git/Github | Linux, Docker, Kubernetes | REST APIs | AWS, Google Cloud | CI/CD, Scrum, Unit Testing

Tensorflow, PyTorch, OpenCV | openai, transformers, langchain, pydantic

## LANGUAGES

**German** ●●●●●

**English** ●●●●○