Tim Straube | Cirriculum Vitea

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Education

Marie Curie Gymnasium	**Kirchzarten**
Abitur	*2012 – 2020*
HTWG	**Konstanz**
Bachelor of Electrical Engineering and Information Technology	*October 2020 – Februar 2025*
HTWG	**Konstanz**
Tutor for Ordinary Differential Equations, Fourier- and Laplace transforms	*March 2024 – September 2024*
Fraunhofer Institute for Solar Energy Systems	**Freiburg im Breisgau**
Internship	*Summer semester 2023*
Fraunhofer Institute for Solar Energy Systems	**Freiburg im Breisgau**
Scientific assistant	*September 2023 – September 2024*
HTWG	**Konstanz**
Bachelorthesis	*July 2024 – November 2024*

Projects

Quadcoptersystem, Bachelorthesis
Development of a quadcoptersystem from scratch, including a joystick interface, the power train and a custom flight controller. Experiments were performed in training pid-parameters as well as a control policy with deep reinforcement learning.

Solving battleship with AlphaZero, Project
Adaptation of an existing AlphaZero implementation to play battleship superhumanly.

Communication theory, Project
Implementation of a Coded-OFDM system in MATLAB.

Distributed Systems, Project
Building a microcontroller network to exchange MQTT-based sensor values while at the same time hosting REST servers as user interfaces for parameter variation on each microcontroller.

Projects at Fraunhofer ISE
Development of a desktop application for calculating current-voltage characteristics of photovoltaic modules from layout and topology data as well as calculation of optimal topologies and cell layouts followed by thermal simulations and factory planning with Tecnomatix.

Information technology

Languages
Assembler, C, Python, MATLAB, SimTalk, Javascript

Operating Systems
Linux, Windows, RTOS, Zephyr

Language

German
Mother tongue

English
C1, Fluent in realtime

Interests

Biking
All year round

Flight and transport simulations
Since childhood days