Hamburg

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EXPERIENCE

Student Researcher

Enercon GmbH

- □ 08/2021 Ongoing Bremen
- Implemented uncertainty quantification of aerodynamic wind turbine simulations in Python.
- · Analysed measurement data with data mining tools.

Student Researcher and Developer

BIBA Gmbh

- □ 09/2020 Ongoing Premen
- Set up a simulation model of a manufacturing facility in Anylogic.
- Implemented data analytics and process optimization.
- State chart based design and object-oriented approach using Java.

Internship R&D Biomedical Engineering

Carl Zeiss Meditec AG

Internship in the development of ophthalmology surgical instruments.

- · Implemented electromechanical simulations in MATLAB Simulink.
- Developed a MATLAB script and GUI to streamline the measurement process and perform automatic data analysis and parameter identification.
- · Carried out and analyzed electromechanical experiments.

Bachelor Thesis and Student Researcher

BIAS GmbH

□ 05/2018 - 04/2019 Premen

https://github.com/schulze-paul/SPICE Coherent-Light-Simulations

Shape measurement of object surfaces using partially coherent illumination.

Grade: 1,3

EDUCATION

Master of Science Applied and Engineering Physics

Technical University of Munich

2020 - 2022

Grade: 2.8

- Deep Learning
- · Biomedical Physics
- Data Mining
- Computational Physics

Bachelor of Science Physics

University of Bremen

2015 - 2019 Grade: 2.36

Erasmus Semester

Leiden University, Netherlands

2017 - 2018

SKILLS

Imaga Proco	ecina	Δlα	arithmo	
Image Processing		Aigontinis		
Data Process	sing F	R&D		
Convolution	al Neura	l Net	works	(CNN
Engineering	Physics	P	ython	
Engineering PyTorch T				Git
	ensorflo	w	Java	Git

PROJECTS

PaulNet Image Classifier

https://github.com/schulze-paul/PaulNet-Image-Classifier Convolutional neural network (CNN) trained on an image classification task with the CIFAR10 dataset. It achieves a 80.6% accuracy on the test dataset.

Video Laboratory

https://github.com/schulze-paul/Video-Laboratory

Video Laboratory is a data annotation tool written in JavaScript on React and Electron that combines automated data retrieval through the YouTube API with an intuitive UX in for fast and accurate video coding

Solitaire Al

https://github.com/schulze-paul/Solitaire-AI

A recursive algorithm that explores every possible move in peg solitaire and finds the perfect game.

Tiny Forest Fundraising Campagn

https://www.startnext.com/tiny-forest-project

Reforestation Project

- € 6300 in finds raised.
- 400 trees planted.
- Planned and installed an irrigation system.

CERTIFICATES

Agile Software Development: Clean Code Practices

LinkedIn 2020