Hamburg

\(+4915779648667

@ paul_schulze@outlook.de

@ schulze-paul.github.io

EXPERIENCE

Student Researcher

Enercon GmbH

□ 08/2021 - Ongoing Premen

- Implemented uncertainty quantification of aerodynamic wind turbine simulations in Python.
- · Analysed measurement data with data mining tools.

Student Researcher and Developer

- 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

□ 10/2019 - 12/2019 • Oberkochen

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 👂 Bremen

 ${\color{red} \boldsymbol{\mathscr{O}}} \ \text{https://github.com/schulze-paul/SPICE Coherent-Light-Simulations}$

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

Al Health Technology	
Image Processing	Algorithms
Data Processing R&D	
Convolutional Neural Networks (CNN)	
Engineering Physics Python	
PyTorch Tensorflow Java Git	
JavaScript Communicator	
English: C2 German: Native	

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-Al

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