

Hamburg

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EXPERIENCE

Student Researcher

Enercon GmbH

Wind turbine manufacturer

- Uncertainty Quantification of aerodynamic simulations in python.
- · Analyzation of measurement data.
- · Literature study of quantification methods and blade element theory.

Student Researcher and Developer

BIBA Gmbh

09/2020 - Ongoing
Bremen

- Set up of 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

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

Shape measurement of object surfaces using partially coherent illumination.

Grade: 1,3

- 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

EDUCATION

Master of Science Applied and Engineering Physics

Technical University of Munich

2020 - 2022

Grade: 2.8

Bachelor of Science Physics

University of Bremen

2015 - 2019 Grade: 2.36

Erasmus Semester

Leiden University, Netherlands

2017 - 2018

SKILLS

Applied Physics Simulation

Python Numpy MATLAB Java

Data Science Machine Learning

UX/UI Development Data Structures

Git Linux

PROJECTS

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.

Discoure Analytics

https://github.com/schulze-paul/discourseAnalytics

Data analytics toolbox and data crawler in Python for Discourse. The discourseAnalytics API makes it easy to sort, filter and search through posts and display or plot the data.

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