

# NILS GERKE

## DevOps Engineer

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## EXPERIENCE

### DevOps Engineer

#### Digitalwerk GmbH

📅 Jul 2018 – Ongoing

📍 Regensburg, Germany

- Complete rework of the existing continuous integration processes, transition of legacy projects into Jenkins Pipeline Jobs
- Automation of build and test log analysis
- Description of dependencies and build environment in conan, CMake and Docker
- Migration of continuous integration services into cloud based clusters

### Research Fellow

#### Hamburg University of Applied Sciences

📅 Jan 2017 – May 2018

📍 Hamburg, Germany

- Development of software tools for the evaluation of measurement data and simulation of wind fields with wake induced turbulence in Python (NumPy, Pandas)
- Planning of extensive measurements for the acquisition of turbulent wind fields, as well as moments and loads occurring at wind turbines.
- Administration and Configuration of following services: Gogs, Jenkins, Jupyter, NextCloud

### Development Engineer

#### Nordex Energy GmbH

📅 April 2016 – Dec 2017

📍 Hamburg, Germany

- Development of a graphical software tool for the download and aggregation of operating and meta-data in Python (NumPy, Pandas, SQLAlchemy, PyQt)
- Development of a software tool for graphical data evaluation and filtering in MATLAB with connection to Python (MATLAB API for Python)
- Development of a methodology for estimating environmental turbulence based on SCADA data in Python (Scikit-Learn, SciPy)

## EDUCATION

### Sustainable Energy Systems (M. Sc.)

#### Hamburg University of Applied Sciences

Grade: 1,2 (excellent)

📅 Sep 2013 – May 2015

📍 Hamburg, Germany

### Mechanical Engineering (B. Eng.)

#### Karlsruhe University of Applied Sciences

Grade: 1,4 (excellent)

📅 Sep 2009 – Aug 2013

📍 Karlsruhe, Germany

## PHILOSOPHY

*“Don’t aim for the ordinary”*

## STRENGTHS

Narrowing the scope

Eye for detail

Fast learning

## CODING

Bash-Script



C++



Groovy



MATLAB



Python



## TOOLS

Artifactory



CMake



conan



Docker



git



Kubernetes



## LANGUAGES

German



English



## PROUD OF



Franz-Herbert-Spitz

Best thesis of class, 2015



German Renewables Award

Best student work in the category  
windenergy, 2016

## HOBBIES

Yoga

Hiking

Slacklining