

NILS GERKE

DevOps Engineer

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EXPERIENCE

DevOps Engineer

Digitalwerk GmbH

Jul 2018 – Ongoing Regensburg, Germany

- Complete rework of 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

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