

# Axel Lorenzen-Zabel

10+ Years in Geospatial, Systems & Development | Passionate about DevOps, Machine Learning, Security, Mobility, Technology and Society

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## EXPERIENCE

deeper.technology GmbH, Rostock — System Architect

JULY 2021 - PRESENT

I optimize system **uptime**, data **reliability**, and development **efficiency** through SRE best practices, PostgreSQL expertise, and **cloud-native** CI/CD workflows. My proficiency in web mapping, OGC standards, and **full-stack** development (Vue, Svelte, Tailwind, PHP, Django) enable data-driven insights and **scalable** MLOps.

DVZ-MV Datenverarbeitungszentrum

Mecklenburg-Vorpommern GmbH, Schwerin/Rostock — System Engineer

MAY 2020 - JUNE 2021

I enable seamless **integration** and **delivery** of state geospatial data, including **aerial photography**, satellite imagery, and diverse **environmental** and **planning data** - ensuring **INSPIRE compliance** - empowering citizens, institutions, and companies to make informed decisions.

Universität Rostock, Rostock — research associate

JULY 2017 - APRIL 2020

I was responsible for the [OpenGeoEdu](#) project's **online learning environment**, conducting research, developing the platform and designing effective course modules. This ensured successful development and operation and ultimately expanded the use of **open data in geospatial education** and research

wpd AG, Rostock — GIS-Consultant & Analyst

JUNE 2016 - DECEMBER 2016

As a GIS Analyst and Consultant at wpd, I leveraged geospatial expertise to **manage geodata**, create detailed **site** and **construction plans**, and prepare comprehensive **planning documents** for offshore wind farm approval procedures, supporting national and international projects.

## DATABASES

PostgreSQL  
MySQL  
MariaDB  
SQLite  
PostGIS  
Elasticsearch  
Redis  
InfluxDB

## DEVOPS & INFRASTRUCTURE

Docker, Compose, Swarm  
Kubernetes  
Helm  
IaC (Terraform, Ansible)  
Linux (Ubuntu, debian, CentOS)  
AWS (EC2, ECS, LightSail, ELB)  
GCP (Compute, App)  
CI/CD Tools (GitLab CI, Jenkins)

## FRONT-END DEVELOPMENT

HTML5  
CSS  
JavaScript  
React  
Vue.js  
Svelte  
Sass  
Vercel  
Webpack

## BACK-END DEVELOPMENT

Python  
Java  
PHP  
Django  
Node.js  
GraphQL  
REST APIs  
SvelteKit

## GEOSPATIAL

ArcGIS  
GDAL  
GRASS  
QGIS  
GeoServer  
deck.gl  
Geonetwork  
Geonode  
OpenStreetMap (nominatim, overpass)

EFTAS Fernerkundung Technologietransfer GmbH,  
Münster — self-employed geographer

MAY 2015 - NOVEMBER 2015

Contracted by EUROSTAT on behalf of the European Commission to map **land cover and land use** in Mecklenburg-Western Pomerania for the [LUCAS survey](#), providing data essential for agricultural monitoring, environmental policy development, and climate change analysis

## EDUCATION

Universität Greifswald, Diplom-Geograph

OCTOBER 2006 - SEPTEMBER 2014

Diploma thesis: "The use of location-based services using the example of the location-based augmented reality/alternate reality game 'Ingress' in Greifswald"

Ancillary subjects Communication Science & Geology

## PROJECTS

VISIONZERO — *BMVI-DataRun 2019*

Increase perceived cycling safety with [open data](#).

## VERSION CONTROL

Conventional commits  
Git  
GitHub  
GitLab  
Semantic versioning  
SVN  
ticketing (issues, milestones)

## ADDITIONAL TOOLS & TECHNOLOGIES

L<sup>A</sup>T<sub>E</sub>X  
LLMs (GPT-4, LLaMA, Gemini, Mistral)  
Lua  
Monitoring (prometheus, loki, grafana)  
Supabase  
SSO (WebAuthn, OAuth2)

## METHODS/Frameworks

Agile  
Design thinking  
DevSecOps  
GitOps  
Hacker ethic  
ITIL 4  
Kanban  
Scrum

## LICENSES & CERTIFICATIONS

GDPR & copyright law  
Class B driving license

## AWARDS

**BMVI-DataRun 2019**

Awarded **1st** prize in the "Community" category €1000

**BMVI-DataRun 2019**

Award in the category "Digital bike hacks"

## LANGUAGES

english