Résumé

Contact Information

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codeberg.org	Volker_Weissmann
GitLab.com	volkerweissmann
GitHub.com	Volker-Weissmann
StackOverflow.com	Volker Weißmann

Technologies

Languages	Rust, C, C++, Python, Julia, Bash, LaTeX, AVR Assembler, Haskell
Build Systems	Meson, CMake, GNU Make
Operating Systems	Arch Linux, NixOS, RHEL, Debian
Tools	Git, Svn, OracleDB, Jenkins, GDB, Perf,
Skills	Excellent debugging skills, even in unfamiliar codebases, good knowledge of build systems, basic knowledge about fuzzing, cryptography and web-development

Languages

German	Native
English	Fluent

Work Experience

07/2022 - Today

Software Developer at a small german company. A very large company pays us to maintain their old, large and interconnected web-application backend written in C. My tasks included:

- Writing and maintaining C-Code

- Writing a package manager for our dependencies

- Improving the tooling my team uses

- Improving how we build our software for development and production and improving our choice of gcc-flags

- Improving Web-Security

07/2018 - 09/2021

Working at the institute for Aircraft Propulsion Systems as a programmer. Implementing numerical calculations in OpenFOAM (C++) and other code (Rust, Python). I wrote this fast and nicely-written ODE solver on my own.

University of Stuttgart

10/2019 - 03/2022

Master of Science in Physics. Grade: 2.0.

Master's thesis

Field: Theoretical statistical physics
Title: Quality Factor of Oscillations under Langevin Dynamics

10/2016 - 10/2019

Bachelor of Science in Physics. Grade: 2.0.

Bachelor's thesis

Field: Theoretical statistical physics
Title: Driven Langevin dynamics in a step potential

Paper

- Propagator for a driven Brownian particle in step potentials, published by IOPScience

- Coherence of oscillations in the weak-noise limit, published by American Physical Society

School

2014 - 2017

Building and Programming Autonomous Robots at School

07/2016

Abitur, Gymnasium Renningen. Grade: 2.1

Free Time

Tracing a hangup in clang-tblgen to a compiler bug in gcc.

Porting the OpenFOAM project to Meson

Writing a blogpost about huntings bugs

Contributing to meson

Writing bug reports

Countless smaller contributions to open-source software

Programming smaller projects

Reading blogposts

Reading papers

Watching talks