Résumé

Contact Information

Name	Volker Weißmann
Phone	+4917681592460
E-Mail	volker.weissmann@gmx.de
Links	Website, GitHub, GitLab, Codeberg, StackOverflow

Technologies

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

Work Experience

07/2022 - Today

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

- 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 compiler-flags
- Improving web-security

07/2018 - 09/2021

Working at the Institute of Aircraft Propulsion Systems as a programmer. Implementing numerical calculations in OpenFOAM (C++) and other code (Rust, Python). For example, I wrote this fast and nicely-written ODE solver.

Free Time

- Tracing a hangup in clang-tblgen to a compiler bug in gcc
- Organizing this event and working on its website.
- Writing my own CAD Software using CGAL and OpenGL.
- Porting the OpenFOAM project to Meson
- Writing blogposts, e.g. about hunting bugs
- Contributing to Meson
- Writing bug reports
- Countless smaller contributions to open-source software
- Programming smaller projects
- Reading blogposts, reading papers and watching talks

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. Grade: 2.1

Languages

German	Native
English	Fluent