

Ellen Emilia Anna Zscheile

Curriculum vitae

Aachen

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Jobs

- 10.2025- **student assistant, Rust programming**, RWTH Aachen, Institute for Automation
09.2026 of Complex Power Systems, Aachen
8h per week, supervisor: Jonathan Klimt; for a Rust-based, lightweight unikernel + associated hypervisor, see also <https://github.com/hermit-os>

Education

- 10.2025- **targeting Master of Science**, RWTH Aachen, Aachen
09.2026 mathematics, minor in electrical engineering; abandoned
06.2025- **targeting Master of Science**, University of Technology Chemnitz, Chemnitz
09.2025 mathematics, minor in computer science; transferred
10.2020- **Bachelor of Science**, University of Technology Chemnitz, Chemnitz, 2.2
06.2025 mathematics, minor in computer science, 3-year Bachelor degree (180 ECTS credit points)
2017-2020 **Abitur**, Fortis Akademie mbH, Chemnitz, 1.5
Abitur with advanced courses / specialization in mathematics and informatics

Internships

- 10.2019 **C++ programming**, comcrypto GmbH, Chemnitz
for 2 weeks; see also <https://www.comcrypto.de>

Language skills

German	Native speaker	
English	at least B2	<i>almost as good as my German</i>
French	unknown / barely	<i>learned for 4 years during school, almost never used afterwards</i>
Greek	unknown	<i>occasionally learned for 3 years during free time</i>

Knowledge

- Many years of experience with programming languages like C, C++, bash, Rust, Python3
- Some experience with programming languages like Go, OCaml, Javascript, TypeScript, Haskell, Perl
- see also <https://github.com/fogti>, <https://github.com/YZITE>, <https://codeberg.org/fogti>, <https://orcid.org/0009-0005-9419-8568>
- Over 10 years of experience with Linux client- and server administration
- Experience with FreeBSD and network services like BIND9, BIRD (BGP, Babel), Lighttpd, MariaDB
- Some experience with embedded programming (Arduino, Raspberry Pi)

Projects

- 2020- <https://github.com/smol-rs>, collaboration (mostly code review) for **async Rust** code

- 2021-2024 https://github.com/YZITE/APC_Temp_fetch, Python tool to extract temperature data from a variety of UPS HTTP interfaces
- 2024-2025 <https://codeberg.org/topola/topola>, a rubber-band PCB router written in Rust, sponsored by NLnet, and specifically a new routing backend, <https://codeberg.org/topola/topola/pulls/187>, and associated research.
- 2025- <https://codeberg.org/forgejo/forgejo>, occasional contributions to a Gitea fork written in Go, in particular: a linter for translation string identifiers (`build/lint-locale-usage`)
- 2025- <https://github.com/hermit-os/uhyve>, a hypervisor written in Rust, designed specifically for running Hermit unikernels; many contributions
- 2026- <https://github.com/mikwielgus/anyangle>, any-angle pathfinding over polygons with holes (written in Rust), A* multilayer routing/pathfinding

Papers

- 2026 Jonathan Klimt, Sarah Simon, Martin Kröning, Ellen Emilia Anna Zscheile, Panagiotis Vasilopoulos, Stefan Lankes, and Antonello Monti. “Blink and you miss it - VMM-OS Co-Design for Millisecond Boot of Isolated Serverless Applications”. In: *Proceedings of the 14th Workshop on Programming Languages and Operating Systems*. PLOS '26. Association for Computing Machinery. DOI: 10.1145/3831586.3838151