

Personal information

Name / Surname

Address

Personal Email

Home page

Github

Sourcehut

Günzler, Robert

Berlin, Germany

robert@gnzler.de

<https://gnzler.de>

<https://github.com/robertgzzr>

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Education

2014 - 2017

Hochschule für Technik und Wirtschaft, Berlin

B. Eng. Computer Engineering

embedded software development, analog/digital electronics, PCB design, VLSI

thesis: *Developing a prototype for monitoring network traffic between Kubernetes Pods using Linux Berkley Package Filters (eBPF)*

Employment

2022 - 2024

Postman Inc. - Senior software engineer

Electron/Chromium: downstream work: packaging, developer experience and project-specific patches; upstream work: Linux platform-integration

Node.js: designing, developing and upstreaming of binary injection tool for single-executable applications

Cross-platform: designing and developing cross-platform C++ framework for building applications with Web Technologies on MacOS and Linux

Linux desktop: integrating WebKit and JavaScriptCore as a reusable C++ webview component, integrating with GTK, Glib and Freedesktop APIs/xdg-portals to provide cohesive desktop experience; upstream work to improve platform APIs for project-specific use-case

2018 - 2022

Balena Inc. - Software engineer

Containers/Docker: develop and maintain docker-engine fork with patches for IoT use-case (low spec environments, network efficient delta-based image transfers)

Customer-driven development: maintain direct contact to customers, troubleshooting on-device issues; consulting, designing and developing custom solutions

Backend system design: design and develop container-based backend build service and software delivery pipeline to remote devices; optimizing container builder to make use of buildkit features

Embedded: develop and maintain custom Linux-based OS, container stack across varied device types using Yocto Linux, rollouts of mission critical software changes, test framework for custom hardware/software stack

2017 - 2018

Kinvolk GmbH - Software engineer

Kubernetes: design and development of kube-spawn, integrating with kubeadm, upstreaming work to handle certain namespaced networking scenarios

systemd: integrating with machined/nspawn subsystems, upstreaming work to enable finer-grained syscall filters

Rust: integrating Habitat Builder into Kubernetes via custom operator

Linux cgroups/metrics: proof-of-concept design and development of cgroup-based (per pod) network traffic statistics collection in Kubernetes clusters via eBPF filters and metric exposure to Prometheus

Side-projects

Gentoo / Alpine Linux / s6

maintain container-related packages and personal package overlay, deep system customization: swap out openrc init and service-manager for *s6-rc*, *podman-kube-play* container manager for Alpine Linux based on *s6-rc*

OpenStreetMap

mapper since 2017, volunteer at State of the Map Europe, OSM/map-based personal projects: *hugo-leaflet* integration, *full-stack* anime-tourism.jp replacement built in *Rust* and *React* with *GraphQL API*, internet-access-map/app using *maplibre-gl*

Desktop application development

GTK-based tag manager for GNOME desktop using *Zig* and *libadwaita*, evolution-data-server shim for interacting with local *vdir* calendars *xdg-desktop-portal* development on alternative client/backend

LaTeX tools

collection of templates and document skeletons to write CVs, letters, legal documents, easy-to-use scripts to create documents using *tectonic* engine in a Unix environment, proof-of-concept *etherpad*-plugin to interact with *tectonic* from browser

Languages

mother tongue
C2 proficient user

German

English

Self-assessment according to *Common European Framework of Reference* (CEF) level