

Tobias Betz

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I am a DevOps Engineer with experience in CI/CD infrastructure, toolchain development, and cybersecurity in the automotive and embedded domain. As Product Owner for CI/CD at Bosch Rexroth, I lead an offshore team while shaping the strategic direction of our platform, driving alignment, and enabling teams to deliver efficiently without compromising on quality or security. I independently design and develop security and architecture tools that are delivered to and used by customers, with a strong emphasis on clean and sustainable solutions. I combine deep technical expertise with strategic thinking and operate confidently across implementation, coordination, and agile project management.

Professional Experience

 **Bosch Rexroth AG**
DEVOPS ENGINEER & PRODUCT OWNER CI/CD

Ulm, Germany
05/2023 - Present

- Product Owner CI/CD: Functional leadership of a 3-person offshore team; backlog prioritization and ensuring delivery capability
- Operation and continuous improvement of the central CI/CD infrastructure; ensuring high availability and security
- Design of complex CI/CD pipelines for embedded application software and consulting on build, test, and deployment automation
- Sole responsibility for the design and development of a customer-delivered CRA compliance tool for firmware signing and HEX file encryption prior to flashing
- Sole responsibility for the design and development of a customer-delivered toolchain centralization platform with IPC-based API integration and centralized data model validation
- Product Security Manager: Threat analysis, risk assessment, and veto authority on cybersecurity work products

Rust Jenkins Docker SVN GitHub Enterprise Scrum

 **CERN - European Organization for Nuclear Research**
TECHNICAL STUDENT / WEB ENGINEER

Geneva, Switzerland
02/2019 - 12/2019

- Independent design and development of web portals and Drupal 8 extensions; migration of existing systems from Drupal 7
- Development of custom features in close collaboration with internal stakeholders

PHP JavaScript Drupal 8

 **Ulm University - University Sports**
RESEARCH ASSISTANT

Ulm, Germany
03/2016 - 03/2022

- System and server administration as well as setup and operation of CI/CD processes
- Design and decomposition of an online service portal into microservices; maintenance of a web application for course booking and management

GitLab Docker Kubernetes PHP Laravel CentOS

Education

 **Ulm University**
MASTER OF SCIENCE, SOFTWARE ENGINEERING

Ulm, Germany
04/2021 - 04/2023

- Focus: IT Security
- Thesis: “Analyzing Feature-Model Histories with Binary Decision Diagrams”
- Final grade: 1.2

 **Ulm University**
BACHELOR OF SCIENCE, SOFTWARE ENGINEERING

Ulm, Germany
10/2015 - 04/2021

- Focus: IT Security
- Thesis: “Comparing and analyzing the CERN email security awareness campaigns” in collaboration with the European Organization for Nuclear Research (CERN), Geneva
- Final grade: 2.8

Skills

Languages	German (native) English (professional proficiency) French (conversational)
Programming	Rust Java Python PHP Bash JavaScript
CI/CD & DevOps	Jenkins GitLab CI Docker Kubernetes SVN Git
Architecture	Microservices IPC Distributed Systems Infrastructure as Code
Security	CRA Compliance Threat Modeling Firmware Signing
Methodologies	Scrum Product Ownership Offshore Team Leadership Agile