

# Robin Ohs

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## EDUCATION

### SAARLAND UNIVERSITY

#### MSC IN COMPUTER SCIENCE

Exp. 2023 | Saarbrücken, Germany

#### BSC IN CYBER SECURITY

Sep 2020 | Saarbrücken, Germany

## COURSEWORK

### GRADUATE

Automated Debugging

Artificial Intelligence

Data Networks

Embedded Systems

Software Engineering

Space Informatics

Hands-On Dependability with Rust

Side-Channel Attacks and Defenses

Physical-Layer Security

Digital Currencies & Smart Contracts

### UNDERGRADUATE

Functional Programming

Object-oriented Programming

Concurrent Programming

Big Data Engineering

Software Engineering Lab

Cyber Security Project

Algorithms and Data Structures

Web Security

Cryptography

Generating Software Tests

## SKILLS

### PROGRAMMING

Kotlin/Java • Spring Boot

Typescript • React

Python • Rust • C/C++

### LANGUAGES

German (Native)

English (Fluent)

French (Beginner)

Norwegian (Beginner)

## WORKING EXPERIENCE

### SAARLAND UNIVERSITY | SOFTWARE ENGINEER WORKING STUDENT

Jan 2023 - July 2023 | Saarbrücken, Germany

- Contribution to a Rust library for making applications resource-aware.
- Implementation of a system daemon to enable carbon-aware operating systems.

### SAARLAND UNIVERSITY | SOFTWARE ENGINEER WORKING STUDENT

June 2021 - June 2022 | Saarbrücken, Germany

- Implementation of a dynamic simulator for satellite scheduling and energy data processing using Java and the Spring Framework.
- Calculation of orbital satellite data using Orekit and two-line elements.

### GERMAN AIRFORCE | SOFTWARE ENGINEER

Sep 2020 - April 2021 | Erndtebrück, Germany

- Full stack development - writing, testing and reviewing code for back-end and front-end development for an internally developed Java application.
- Participation in regular sprint events such as dailies and sprint reviews.
- Implementation of a software requirement converter to import from third-party programs into Jira.

### SRT GMBH | SOFTWARE ENGINEERING INTERN

Jan 2020 - April 2020 | Saarbrücken, Germany

- Development of a key licensing infrastructure for the licensing of the company's software products (Backend + Web interface).
- Generation of secure licensing keys with cryptographic hash algorithms and signatures.

## RESEARCH

### CISPA - CENTER FOR INFORMATION SECURITY | THESIS

June 2020 - Sep 2020 | Saarbrücken, Germany

- **Title:** Testing apps with probabilistic grammars
- We researched whether it is possible to merge grammars encoding the same Android application into a single, more representative one and control the test generation with probabilistics gained by the merging algorithm.

### HOT CARBON 2023 | PAPER

Boston | Saarland Informatics Campus

- **Title:** carbond: An Operating-System Daemon for Carbon Awareness
- With colleagues at SIC, FAU, and RUB, we submitted a paper on a proposed daemon service for Linux that aims to make the operating system and applications carbon aware and thus contribute to more sustainability.

## CERTIFICATES

### STK CERTIFICATION LEVEL 1 | AGI (ANALYTICAL GRAPHICS, INC.)

Issued April 2020