

Katharina Sternbauer

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Linz / Freistadt, Austria



EXPERIENCE

- **Primetals Austria**

Software Engineer for Continuous Casting Machines
Design and implementation of internal software tools
in Java for designing casting machines

*Summer 2019 and 2020, October 2020 to October 2021,
since February 2022*

- **Technician at JKU**

Institute for Digital Business
Responsible for hardware maintenance, server and
software management, technical exam assistant

October 2021 to February 2022

- **Student assistant at JKU**

Institute for Integrated Circuits / of Telecooperation
winter semester 2019, summer semester 2020

- **Compulsory internships**

Stiwa Group and Technosert
Implementation of backup tools, home automation vi-
sualisations and hardware manufacturing

Summer 2014 to 2016

EDUCATION

- **MSc programm for Computer Science**

Johannes Kepler University Linz (JKU)
Since 2021

- **BSc programm for Computer Science**

Johannes Kepler University Linz (JKU)
2018 - 2022

- **Community service - kindergarten assistant**

Pfarrcaritas Kindergärten Freistadt
2017 - 2018

- **High Technical College (HTL) Linz Paul-
Hahn-Straße**

Computer Science / Information Technology
A-Levels passed with distinction
2012 - 2017

SKILLS

- **Programming languages**

Java, C, C#, VHDL, PHP, Javascript, SQL, Python,
x86/MIPS Assembly, UnitTesting, Shell

- **Office & Docs**

LaTeX, Markdown, Office suites

- **Interests**

Rust, Automatisations, UnitTesting, Linux, Cryptogra-
phy, Embedded and small-scale systems, remote man-
agement and some machine learning

- **Languages**

German (native speaker), English (B2/C1)

PROJECTS

- **LMS/HSS bachelor thesis** [github.com]

Extended implementation hash based signature system
for post-quantum cryptography
C, Make

- **Raspi soil moisture detector** [github.com]

A demonstration on how to use two different small-
scale systems, sensors and actuators as a whole system
for detecting the soil moisture levels of plants.
Python, Shell, SQL

- **AirBnB Data Visualiztation** [github.com]

Made with lots of sweat of AirBnB data for Barcelona,
including graphs, plots, PCA and clustering.
Python, Jupyter

OTHER HIGHLIGHTS

- Editor for the German hardware and tech news/review
page www.tech-review.de

- You can send me PGP-encrypted email (ECC
(ed25519)) to my address. The Public Key can be
found here and has the the following fingerprint:
5f9b62d5ec277ebe187bb09a53597a1a03a9da40