

# marcusding

Student 

## contact

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## languages

German (native)

English (C2)

Chinese (B1)

## programming

C, Java, Python,  
typescript, machine  
learning, web  
development, CI, git  
(github.com  
/kryptokommunist)

## education

- 2013 – 2015 **Studies: Bachelor in computer science/physics** Humboldt-Universität zu Berlin  
core subject: computer science  
minor subject: physics
- 2015 – 2018 **Studies: Bachelor IT-Systems-Engineering** Hasso-Plattner-Institute  
grade: 1.6. Engagement as spokesperson (Klubsprecher) for the Makerklub.
- 2018 – **Studies: Master IT-Systems-Engineering** Hasso-Plattner-Institute

## experience

- 2020 – 2020 **Participant in Google Summer of Code** FreeCAD  
From 17.05.2020 until 16.08.2020  
Programming a Jupyter Notebook integration in Python for the open-source CAD program FreeCAD. The work was mentored by three experienced FreeCAD contributors.
- 2021 – 2021 **Master project: Hingecore** Prof. Baudisch, Hasso-Plattner-Institute  
From 01.03.2021 until 01.10.2021  
Developing and implementing an algorithm for unfolding 3D-models into a 2D-plane. Implementation in typescript with a four-person team into an existing code base (kyub). Paper published at UIST22.
- 2021 – 2022 **Global Team-Based Innovation course** Hasso-Plattner-Institute, Uni St. Gallen, LBBW  
From 01.10.2021 until 30.06.2022  
Working in a team of 3 HPI IT-System-Engineering and 3 Uni St. Gallen business students. Weekly presentations with the LBBW team and teaching assistants. Conducting interviews with small and medium-sized enterprises, documenting research results, developing design prototypes and a final prototype web application for risk analysis.
- 2018 – 2023 **Working Student: IT Infrastructure** micropsi industries  
From 01.09.2018 until 15.08.2023  
Main person responsible for company office IT infrastructure, oversaw growth from 10 employees, 2 million VC funding to now 50 employees and 25 million VC funding. Managing dev ops systems (failure investigations/backups). Configuring the internal network (router/firewall/VLANs/DNS/DHCP/smart switches monitoring). Administration of internal services (Jenkins CI/Mail/Office365).

- 2023 – **Working Student: Software Development** Planetary Transportation Systems  
 Started on 01.08.2023  
 Working as a part-time software developer on web apps and also hardware development for an STM32-based cube sat onboard computer.
- 2019 – **Freelance Programmer** Berlin, Germany  
 Started in 2018  
 Planning and programming software projects mostly in Python/Java (Recent example for an installation to be featured at Ars Electronica 2019: [Github link](#)). The work involved designing software systems from the ground up as well as adding features to an existing code base.

## other

- 2016 **Machine Learning Competition** Data Mining Cup  
 Reached 7th place out of 120 teams from 88 universities in 30 countries as part of team Uni\_Potsdam\_1.  
 Aim was to use given data and methods of data mining to build a model which enables a good prediction of return rates for an online fashion store.
- 2018 **Design Thinking Basic Track** School of Design Thinking  
 Took a one-semester course Design Thinking Basic Track.  
 Applying the user-centered innovation principles of Design Thinking in a interdisciplinary student team to problems from external project partners.
- 2022 **Mindful Leadership Training** Spirit Rock Meditation Center  
 Completed 9 month training program with Nikki Mirghafori, PhD and Marc Lesser, MBA.  
 Learned and practiced mindful, compassionate, values-aligned leadership. Cultivating well-being: self-care, rest, and resilience. Self-awareness and self-management: emotional intelligence and working with difficult emotions. Transforming professional and personal relationships through embodied, skillful communication. Empowering and inspiring people and teams Fostering and co-creating belonging

## interests

bhuddism & meditation, embodiment, sailing, artificial general intelligence, light installations, deep learning, tinkering with electronic hardware, blogging, traveling