

Felix Kunze

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LOCATION: Zürich, Switzerland

EDUCATION

ETH Zürich 2022- Today
BSc. Electrical Engineering (Sem. 4)
Current Average: 5.5

University of Constance: 2022-2022
Early university placement; 12ECTS in Comp. Sci.
Karl-Maybach-Gymnasium 2017-2022
Abitur: 1.0

PROJECTS

ARIS: Student Rocketry - Rust, C/C++, ROS, KiCad, CAN, Control Systems, MATLAB 2023-2024
Academic Space initiative Switzerland

- ◇ **Project ODYSSEY:** Development of a bi-liquid rocket to be the first student team to reach the karman line. Personally as leader of the electronics team.
- ◇ **Project NICOLLIER:** Coaching of the Electronics team. Calculation and tuning of accurate guidance models for parachute systems.
- ◇ **Project BERNOULLI:** Development of a Flight computer for a hybrid rocket with a guided recovery system

RAMOTS-Telescope - Arduino, OpenCV, Woodworking, Welding, Power Electronics 2020 - 2023
Lake Constance astronomy Organization

Construction of a mobile automatic telescope with a 16" mirror for satellite tracking. Features include a in-house serial communication protocol as well as using computer vision models to track the satellites without human interaction. The work received broad media coverage and was published in hobbyist astronomy journals

Scaffold Game Engine - Java, OpenGL, GLSL, Gimp 2022
Game Engine in Java with LWJGL

Object Oriented Game Engine with an Entity Component System sporting support for animations and text-rendering via bitmap fonts.

F1 in Schools - Autodesk Fusion & CFD, Wordpress, Inkscape 2020 - 2021
Multi-Disciplinary Internation Technology Competition

Construction of a gas-powered race car via MJF-3D Printing and simulation of its Aerodynamics. Fundraising from multiple regional companies.

Stipend "Simulated Worlds" 2021
Center for communication and information of Ulm University

Development of a simulator for the energy usage in an IOT network together with academic professionals.

WORK EXPERIENCE

2023 Teaching Assistant in Digital Circuits
2023 Coaching at the F1inschools Competition
2022 Teaching of a Java Programming Course

2021 President of the school robotics club
2019 Taught weekly Astronomy classes at school
2019 Internship at SAP in Markdorf

AWARDS AND RECOGNITIONS

2022 January First prize at the German national computer science olympiad
2021 November *Reiff-Prize* from the Max-Planck institute for building the RAMOTS-Telescope
2021 July *Karl-Maybach-Prize 2021* for extraordinary scholastic achievements and social commitment
2020 October *Best Delegate Award* at a Model United Nations conference
2019 May Award by the Zeppelin-Foundation for the construction of a Smart Home

SKILLS

Software
Rust, C, Python, Linux, OpenGL,
ROS, Computer Architecture

Electrical
Kicad, Embedded Systems,
Reading Datasheets

Mechanical
Autodesk CFD, 3D printing,
Soldering, Machining