

Luca Cordes

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Control systems engineer with a focus on modeling, simulation, and implementation of mechatronic systems. Experienced in embedded control, hardware prototyping, and integrating sensors and actuators. Passionate about building and testing real-world systems and validating models.

EDUCATION

University of Padova

Oct. 2024 – Current

Master of Science in Control Systems Engineering

Padova, Italy

- **Coursework:** System Theory, Model and Control of Electric Drives, Digital Control, Machine Learning
- **Research:** Participation in the Bosch Future Mobility Challenge

University of Applied Sciences Darmstadt

Oct. 2019 – Sep. 2024

Bachelor of Science in Mechatronics

Darmstadt, Germany

- **Coursework:** PLC programming, Measurements, Static/kinematics, Basic control theory
- **Bachelor Thesis:** Model and control and implementation of an automated string tuner on STM32 with FreeRTOS

Berufliches Gymnasium Groß Gerau

Sep. 2015 – Sept. 2018

A level with computer science direction

Groß Gerau, Germany

- **Coursework:** C# programming, Simple Arduino/Hardware Projects

EXPERIENCE

Etalytics GmbH

Mar. 2026 – Present

Working Student/Thesis

Darmstadt, Germany

- Creation of a standard for control/topology representation of server cooling systems using markup languages.
- Using AI for all accumulated systems and showing common pitfalls/solutions

Adaptive Balancing Power GmbH

Sep. 2023 – June 2024

Working Student/Internship

Pfungstadt, Germany

- PCB design to reduce the scaling cost, implementation and testing of various components
- Designed and printed mounting solutions in CAD

HDMC

Sep. 2021 – July 2022

Developer

Darmstadt, Germany

- Developed the hardware and software for an IoT device that reports the occupancy of the disabled spot on a bus

PROJECTS

Drone: Matlab, C/C++, ROS, Python, HTML/CSS, Bash

Keyboards: Combination of disciplines: SMD PCB soldering, 3D printing, firmware, art

3D Design: Designing the chassis for the car in the Bosch Future Mobility Challenge

SKILLS

Programming Languages : Building a custom 5 inch quad, fly style: Acrobatic/Racing, rarely cinematic

Tools : Simulink/Matlab/Octave, KiCad/EasyEDA, Onshape/Fusion360, Linux, Git, $\LaTeX$

Languages : German (native), English (C2)