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 contorl/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)