

Lichuan Qin
Leopoldstraße 204
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Lichuan.qin@tum.de



PERSONAL DETAILS

Name, Vorname: Qin, Lichuan
Born: 21. September 2002 in Shanghai
GitHub: [Ayron1929](#)

EDUCATION

Since Apr 2024 **M.Sc. in Electrical Engineering and Information Technology**
Technical University of Munich (TUM), Germany
Specialization Areas:

- Electronic Circuits and Systems
- Embedded and Computer Systems

Description of Core Modules:

- Fundamental semiconductor process technology and devices
- Integrated analog circuits in transistor level, the implementation in CMOS technology, non-idealities and their compensation
- Timing analysis of digital circuits, design and implementation in synthesis tools, principles of testing, and their cryptographic applications in the security context
- Embedded programming, multicore processors, memory hierarchy, HW/SW codesign, and system-on-chip technology

Oct 2020 – Mar 2024 **B.Sc. in Electrical Engineering and Information Technology**
Technical University of Munich (TUM), Germany

- Thesis at Chair of Circuit Design:
Analysis and Verification of Stress Dependence of Silicon Chips Embedded in Polymer Foils on Chip Thickness (Grade: 1,7)
- Engineering Internship at Chair of Electronic Design Automation:
Code Generator For Instruction Monitoring
- One-year Adveisor Program:
Construction of Automated Intelligent Mobile Plant-Care-Station

EXPERIENCE

Jan 2023 – Oct 2023 **Working Student for EoL Test Automation of HiL-Boxes**
ARRK Engineering GmbH, Munich

- Analyzed and tested CAN(FD) communication
- Supported the development of HTML test report generation
- Assisted team in laboratory operation

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Aug 2021 – Oct 2021

Student Assistant

Technical University of Munich (TUM), Germany

Responsible for tutoring in the mathematics pre-course

SKILLS

- | | |
|----------------------|--|
| Tools and Software: | <ul style="list-style-type: none">• Use of COMSOL and MATLAB for the bachelor's thesis• Experience with LTspice, Git, CMake, and Vivado as part of the university curriculum• Familiar with CanEasy interface |
| Coding Expertise: | <ul style="list-style-type: none">• Extensive use of C for the embedded programming• Work with Python for the engineering internship• Use of VHDL to design digital circuits• Application of CAPL codes in CanEasy as plugins to successfully generate HTML test report |
| General IT Abilities | <ul style="list-style-type: none">• Proficiency in MS Office and Adobe• Familiar with multiple operating systems: Mac, Windows, and Linux |
| Languages | <ul style="list-style-type: none">• English – C1 to C2 in TUM English course placement test, most courses of the master's degree program in English• German – C1 in DSD2, most courses of the bachelor's degree program in German• Chinese – Native |

INTERESTS

Keen photographer, traveler, and video editor, who regularly posts on social media

- Instagram: [ayron1929](#)
- YouTube: [@Ayron1929](#)
- Little Red Book: [ayron](#)

