Xander Yap

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About

I am a dedicated and detail-oriented undergraduate pursuing a degree in Information Technology and Electrical Engineering. My academic journey has helped me build a solid foundation, which I aim to leverage in advancing technology and its application in society.

Education

09/2022 - present	**Bachelor of science, ETH Zürich**	**Zürich, Switzerland**

Department of Information Technology and Electrical Engineering

Electives: Introduction to machine learning, Embedded systems, Control Systems, VLSI 1: HDL Based design for FPGAs

09/2015 - 05/2022	**Secondary school (Abitur)**	**Munich, Germany**

Thomas-Mann-Gymnasium
- developed a memory game app using Android Studios

Study Projects

Group Project: The role of an external potential in a kernel charge equilibration

- added an external potential to kernel charge equilibration to predict charge distribution using machine learning techniques
- collaborated on GitLab and utilised a remote server via SSH to run the model

FPGA in quantum computing with superconducting Qubits:

- utilised a Red Pitaya to implement quantum signal processing using Xilinx and Verilog HDL

Memory Design: From Architecture down to Basic Cells:

- analysed System Design, Circuit Design and Physical Design using Cadence

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Professional Experience

11/2023 - 12/2023	**Teaching assistant**	**Zürich, Switzerland**
ETH Zürich	led a workshop with a fellow student to support first-year students in preparing for their exams	

01/2019 - 08/2022	**Gastronomy**	**Munich, Germany**
Majestic GmbH	provided general assistance as bartender, waiter and helped translate formal letters and documents	

03/2019 - 03/2019	**Internship**	**Munich, Germany**
Wochenanzeiger	gained insights in customer service, public relations and logistics	

Skills and interests

Languages:	English: Fluent, German: Native, Chinese: Native
Technical Skills:	Python (NumPy, Pandas, PyTorch, scikit-learn) | C/C++ | Git Assembly(RISC-V, ARM) | Verilog/Systemverilog
Interests:	Machine learning, embedded systems, sports, traveling, cooking