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

- Utilized a machine learning framework (q-pac) to model charge and force distributions of HfO_2
- Extended the framework by incorporating an external potential and study its effects
- Collaborated via GitLab and a remote server for model execution

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

Professional Experience

11/2023 - 12/2023 **Teaching assistant** **Zürich, Switzerland**
ETH Zürich Led workshops 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) | Verilog/Systemverilog
Interests: Electronics, Sports, Traveling, Cooking