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EDUCATION

MASTER OF SCIENCE ETH ZÜRICH

09/2020 - 03/2023

ELECTRICAL ENGINEERING & INFORMATION TECHNOLOGY

- **Major:** Embedded systems design and very large systems integration
- **Minor:** Communication networks and machine learning

BACHELOR OF SCIENCE ETH ZÜRICH

09/2016 - 08/2020

ELECTRICAL ENGINEERING & INFORMATION TECHNOLOGY

CORPORAL - TEAM LEADER TELEMATICS

09/2019 - present

SWISS MILITARY / CIVILPROTECTION - GRISONS FU GFS CAVALCADE 3

PROJECTS

MASTER THESIS

08/2022 - 02/2023 (ongoing)

DESIGN AND VALIDATION OF POWER TRACER / SENSOR EMULATOR FOR EVALUATION OF EMBEDDED SYSTEMS

- FPGA based source measurement unit with 6 analog power channels, logic ports and sensor emulation for device under test.

SEMESTER THESIS #2

03/2022 - 05/2022

FUSION OF BLE DIRECTION FINDING AND UWB RANGING FOR INDOOR LOCALIZATION

- Single anchor localization by combining bluetooth low energy angulation and ultrawideband lateration with Zephyr real-time operating system based firmware.

SEMESTER THESIS #1

11/2021 - 02/2022

BATTERY-LESS ALWAYS-ON SMART CAMERA WITH SIGFOX NETWORKS

- On-site energy harvesting with solar panel, face recognition with Tensorflow C and data transmission with long range wireless access network.

SATELLITE LAND USE MAPPING FOR RAPID INFRASTRUCTURE PLANNING

HS 2021

AUTOMATICALLY MAPPED COMPLEX URBAN LAND USE PATTERNS FROM HIGH-RESOLUTION SATELLITE IMAGES.

FICTIONAL BUSINESS PROPOSAL ON THE CREATION OF A BIG DATA BASED GUIDE

FS 2021

DEPARTMENT OF MANAGEMENT, TECHNOLOGY, AND ECONOMICS, ETH ZÜRICH

BUILDING A MINI-INTERNET

2020

ENABLING END-TO-END CONNECTIVITY ACROSS 80 AUTONOMOUS SYSTEMS

- Composed of hundreds of network devices, features including Link failure detection, load balancing and traffic control.

SKILLS

PROGRAMMING LANGUAGES	Experienced: Python C Familiar: C++ SystemVerilog Bash Powershell SQL Matlab
FRAMEWORKS	Docker GIT CLI Office Backend Engineer
LIBRARIES	Jupyter Matplotlib Numpy Pandas Scikit-learn Tensorflow (Keras)
EMBEDDED DESIGN	Altium NEXUS Zephyr nRF Connect STM32 Cube IDE
LANGUAGES	Native: Swissgerman Fluent: English German
HOBBY	Coding Cooking Weight training Dancing

EXTRA

- Teaching assistant for professorship of high power electronics at ETH Zurich over FS 2021
- Salesman for MediaMarkt Chur from 2016 until 2020 as a sidejob
- Tutor for grammar school level math and physic at Fit4School