

Nando Marcel Galliard

Electrical Engineer

Zurich | Switzerland

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galliard.ga contains all project papers

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

09/2021 - 12/2021

02/2021 - 05/2021

02/2020 - 12/2021

Electrical Engineering & Information Technology

Major: Communication networks and very large systems integration

Minor: Powerelectronics

Matura 09/2008 - 07/2014

EMS Schiers, Grisons

Major: Mathematics and Physics Minor: European History

Corporal - Team Leader Telematics 09/2019 - present

Swiss Military / Civilprotection - Grisons FU GFS Cavalcade 3

Projects _

Master Thesis 08/2022 - 02/2023

Design & 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
Design and Validation of single anchor localization system by combining BLE angulation and
UWB 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

Design and Validation of 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

Automatically mapped complex urban land use patterns from highres satellite images.

Fictional business proposal on the creation of a big data based guide

Department of Management, Technology, and Economics, ETH Zürich

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

Building a mini-Internet

PROGRAMMING LANGUAGES Experienced: Python | C

Familiar: C++ | SystemVerilog | Bash | Powershell | SQL | Matlab

FRAMEWORKS Docker | GIT | CLI | Office | Backend Developer

LIBRARIES Jupyter | Matplotplib | Numpy | Pandas | Scikit-learn | Tensorflow (Keras)

EMBEDDED DESIGN Altium NEXUS | Zephyr | nRF Connect | STM32 Cube IDE

LANGUAGES *Native:* German *Fluent:* English

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