Pascal Cosimo Fina

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EXPERIENCE

Teaching Assistant | Institute of Information Security   Sep. 2024 – Present
- Organize and hold Q&A sessions, grade assignments, and conduct student interviews for the "Digital System Design" course.
- Technologies: SystemVerilog, C

Working Student | Infineon Technologies   Jul. 2022 – Present
- Worked in the Radar and Frequency Department, enhancing robot navigation systems using ToF sensors integrated with SLAM techniques and optimization via reinforcement learning.
- Bachelor thesis conducted in cooperation with Infineon and TU Graz.
- Technologies: C++, Python, ROS, Machine Learning

Software Developer Intern | Styrian State Government   Jul. 2020 – Aug. 2020
- Provided software and technical support for monitoring pollutant levels in Styria.
- Technologies: Python, MATLAB, C++

Intern | University of Graz - Analytical Chemistry Lab   Jul. 2019 – Aug. 2019
- Determined heavy metal content in urban plant samples, utilizing chemical laboratory instruments.
- Technologies: MATLAB, Python

Paramedic | Red Cross Austria   Oct. 2020 – Jul. 2021
- Served at Corona test stations following mandatory social service as a paramedic.

EDUCATION

Swiss Federal Institute of Technology (ETH) Zurich   *Starting Fall 2025*
MSc. Electrical Engineering and Information Technology   *Zurich, Switzerland*

Technical University of Graz   Sep. 2021 – Jul. 2024
BSc. in Information and Computer Engineering   *Graz, Austria*
- Thesis: Simultaneous Localization and Mapping with Indirect Time-of-Flight Cameras

Seoul National University   Sep. 2024 – Dec. 2024
Exchange Semester in Electrical and Computer Engineering   *Seoul, South Korea*

TECHNICAL SKILLS

Programming Languages: Python, C, C++
Hardware Languages: SystemVerilog
Hardware Platforms: Raspberry Pi, OpenCR Board, TurtleBot
Technologies: Git, LaTeX, CMake, Electronic Circuit Design

CERTIFICATIONS & INTERESTS

Paramedic Certification: Red Cross Austria
IELTS Academic

SCHOLARSHIPS

Academic year 2022-2024: Merit scholarship by Technical University of Graz
Academic year 2024: OverSEAs scholarship

PERSONAL INFORMATION

Nationality: Austrian   Date of Birth: 30.10.2001
Languages: German (C2), English (C1), French (B1)