Christopher Frederik Tibaldo

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EDUCATION		
ETH Zürich, Master Computer science		Feb. 2022 - Aug. 2024 (est.)

- **Major:** Secure and reliable systems
- **Minor:** Computer Vision

ETH Zürich, Bachelor's Program Computer science		Sept. 2017 - Dec. 2021
Cantonal Science High School: Liceo Lugano 1		Aug. 2016

ACADEMIC PROJECTS

Master:

- **Semester project:** Mixed Reality visualization of sensor data from HEAP autonomous excavator
    - C++ ROS package, streaming LIDAR and GPS data from autonomous excavator
    - Microsoft Hololens 2 interface via Unity, written in C#, using MRTK
- Identifying failed size-optimizations in assembly [Python, C]
- ACME client: automatic TLS certificate requesting and renewal system [Java]
- Mixed Reality tool for terrain modelling using Microsoft Hololens [Unity, C#]

Bachelor:

- **Bachelor thesis:** VR interface for Grasshopper (Architectural design tool, which via graphical programming language enables parametric structure design)
    - VR interface in Unity, using C# and Windows Mixed Reality Toolkit (MRTK)
    - C# plugin for Grasshopper

PERSONAL PROJECTS

- Exotic Chess Game: Android game (not published) with custom chess boards [Unity, C#]
- Publibike-tracker: Tracking movements of Publibikes around Switzerland [Python, MySQL, JavaScript]
- Presentatron: Tool to train holding presentations in front of crowds, using VR headset [Unity, C#.]

Visit `https://tibaldo.ch/projects` for further details.

EXTRACURRICULAR

- **Founding board member "VELOVE Schweiz"**	2022-now
– Responsible for creating and maintaining website and wiki (velovezh.ch)	
- Board member VELOVE	2019-2022
- Sailing instructor Lugano Sailing Club	Summers 2017-2019

LANGUAGES

German	Native speaker
Italian	Native speaker
English	Excellent
French	Intermediate

TECHNICAL SKILLS

Programming languages	**Robust:** Java, C, C++, C#, Python **Limited proficiency:** SQL, Haskell, Matlab
Programming tools	Docker, Unity, Git, ROS (Robotic Operating System)
Operating systems	GNU/Linux, Windows
Internet/Design	JavaScript, HTML/CSS