# **Christopher Frederik Tibaldo**

Born: 31.07.1997

**EDUCATION** 

**ACADEMIC** 

**PROJECTS** 

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#### Feb. 2022 - Aug. 2024 (est.)

Sept. 2017 - Dec. 2021

Aug. 2016

#### **ETH Zürich, Master Computer science**

· Major: Secure and reliable systems

• Minor: Computer Vision

ETH Zürich, Bachelor's Program Computer science Cantonal Science High School: Liceo Lugano 1

### Master:

- Master thesis: Investigating weaknesses in GNSS systems. "Distributed GNSS Spoofer for Multi-location Spoofing"
  - Analyzing GPS protocol, emulation using GNU-Radio
  - Implementation using Software Defined Radios (SDR)
- 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, JavaScript]
- Presentatron: Tool to train holding presentations in front of crowds, using VR headset [Unity, C#.]

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

#### EXTRACUR-RICULAR

## Founding board member "VELOVE Schweiz"

2022-2023

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

Programming languages | **Robust:** Java, C, C++, C#, Python

Limited proficiency: SQL, Haskell, Matlab

**TECHNICAL** Programming tools Docker, Unity, Git, ROS (Robotic Operating System) SKILLS Operating systems GNU/Linux, Windows

Operating systems GNU/Linux, Windows Internet/Design JavaScript, HTML/CSS