

Christopher Frederik Tibaldo

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EDUCATION	ETH Zürich, Master Computer science <ul style="list-style-type: none">• Major: Secure and reliable systems• Minor: Computer Vision ETH Zürich, Bachelor's Program Computer science Cantonal Science High School: Liceo Lugano 1	Feb. 2022 - Aug. 2024 (est.) Sept. 2017 - Dec. 2021 Aug. 2016
ACADEMIC PROJECTS	Master: <ul style="list-style-type: none">• Master thesis: Investigating weaknesses in GNSS systems. "Distributed GNSS Spoofing for Multi-location Spoofing"<ul style="list-style-type: none">– 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<ul style="list-style-type: none">– 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: <ul style="list-style-type: none">• Bachelor thesis: VR interface for Grasshopper (Architectural design tool, which via graphical programming language enables parametric structure design)<ul style="list-style-type: none">– VR interface in Unity, using C# and Windows Mixed Reality Toolkit (MRTK)– C# plugin for Grasshopper	
PERSONAL PROJECTS	<ul style="list-style-type: none">• Exotic Chess Game: Android game (not published) with custom chess boards [Unity, C#]• Publibike-tracker: Tracking movements of Publibikes around Switzerland [Python, JavaScript]• Presentatration: Tool to train holding presentations in front of crowds, using VR headset [Unity, C#.]	
	Visit https://tibaldo.ch/projects for further details.	
EXTRACURRICULAR	<ul style="list-style-type: none">• Founding board member "VELOVE Schweiz"<ul style="list-style-type: none">– Responsible for creating and maintaining website and wiki (velovezh.ch)• Board member VELOVE• Sailing instructor Lugano Sailing Club	2022-2023 2019-2022 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 Docker, Unity, Git, ROS (Robotic Operating System) GNU/Linux, Windows Internet/Design JavaScript, HTML/CSS	