

Christopher Tibaldo

Email: chris@tibaldo.ch — tibaldo.chris@gmail.com
Phone: +41 76 540 46 22
LinkedIn: <https://www.linkedin.com/in/tibaldo-christopher>
Born: 31.07.1997
Nationality: Swiss, German
Address: Freilagerstrasse 92, 8047 Zürich



EDUCATION	ETH Zürich, Master Computer Science	Feb. 2022 - Aug. 2024 (est.)
	<ul style="list-style-type: none">• 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:	
	<ul style="list-style-type: none">• Master Thesis: Investigating weaknesses in GNSS systems. "Distributed GNSS Spoofer 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 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.	

EXTRACURRICULAR	• Founding board member "VELOVE Schweiz"	2022-2023
	– Responsible for creating and maintaining website and wiki (velovezh.ch) and fixing bicycles.	
	• 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	Linux, Windows
	Internet/Design	JavaScript, HTML/CSS