Timothy Steven Schürstedt

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Education

2021	**University of Zürich / ETH**, *MSc Computer Science*, Semester abroad.
2019–today	**Karlsruher Institute of Technology**, *MSc Computer Science*, current GPA 1.4 (Germany).
	○ focus on computer graphics and physics
	○ lectures on GPU Computing with OpenCL, offline and online rendering, machine learning with python
2018–2019	**Musikhochschule Karlsruhe**, *MA Musikinformatik*.
	○ lectures on using machine learning in music, digital signal processing
2014–2018	**University Koblenz-Landau**, *BSc Computational Visualistics*, GPA 2.3 (Germany).
	○ Project on building a smartroom with Arduino and Arduino IDE
	○ Bachelor Thesis: computational composition using cellular automata and lindenmayer systems
2006–2014	**Paul-Klee Gymnasium Gersthofen**, Abitur.

Work Experience

2018–today	**Student Assistant at the Institut of Applied Computer Science (KIT)**, software developer in C++.
	○ paper contribution at the Forum Bauinformatik Berlin, "Use of VR-Technologies in BIM / GIS"
	○ working with a large codebase, porting old code to modern OpenGL, optimization of the graphics engine using OpenGL and Vulkan
	○ extending the graphics engine to Virtual Reality using OpenVR and the HTC Vive
2018	**Piano Teacher at the musicschool of Winningen**.
2017–2018	**Student Assistant at the Institut West (University Koblenz)**, support of the lecture database fundamentals.
2016–2017	**Tutor in maths and computer science at Lernstudio Barbarossa Koblenz**.

Current Projects in 2020

8-Bit Computer *[link]*	**StevieJump** *[link]*	**StevieTracer** *[link]*
developing a Von-Neumann 8-Bit computer architecture on bread-boards, using 7400-series ICs	2D real-time rendering application, using OpenGL and C++, procedural level generation with cellular automata	Monte-Carlo Pathtracer in C++ using Next-Event-Estimation and Russian Roulette, supporting diffuse and specular spheres

Other Activities

2018 – today	**Long Endurance Sports**, Marathons, spring distance triathlon.
2014 – today	**Piano, Guitar and Singing**, Playing classical piano literature, e.g. Chopin, Liszt, Scriabin.

Languages

English	**France**	**German**
Fluent (B2+/C1)	Advanced (B1+)	Native speaker