

Jim Eckerlein

Software Engineer

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EXPERIENCE

GPU Software Engineer, UX3D GmbH

January 2019 — Present

Development on Gestaltor, the company's product, using Qt and C++. Engine and middleware development in C++, Vulkan, and OpenGL

Contribution to the official Khronos glTF Sample Viewer and adding support for Draco mesh compression to the official Blender glTF Importer and Exporter

Software Developer,

MBS Electronic Systems GmbH & Co. KG

June 2017 — December 2018

Implementation of a PDF rendering widget in C++, QML, Qt Quick targeting an embedded device

[Reference](#)

Trainee, ESR Labs GmbH

September 2015 — July 2016

Implementation of CAN message sender and receiver on an Arduino device

Construction of Hardware on which the software implementation is supposed to run on

[Reference](#)

EDUCATION

Technical University of Munich

October 2018 — August 2023

Bachelor of Science in Computer Science

Seminar work: [The Evolution of the C++ Memory Model](#)

Thesis: [An Environment for Continuous Integration and Software Testing for sys-sage](#)

SKILLS

C++20

Rust

Java

Git, GitHub

WebGPU, Vulkan, Metal, OpenGL

Qt 6

Familiar: Swift, Android, Haskell, Kotlin, JavaScript, and HTML/CSS

Languages: German, Czech (bilingual), and English C1

Personal Interests: Realtime rendering, mathematics, Geometric Algebra, programming close to hardware, being productive

PERSONAL PROJECTS

4D Geometry Renderer

Implementing a Flutter App rendering a spatial slice of a draggable 4-D geometry. Features interactive rotation on the X-W plane, the resulting 3-D slice is computed and rendered in real time. [Source code](#)

JavaScript mini IDE

Implementing an Android App featuring a JavaScript editor with syntax highlighting. The code is parsed in C++, the result passed back through the JNI. Features a built-in file explorer to persistently store scripts. [Source code](#)