Jim Eckerlein

Mail: jim.eckerlein@gmail.com

Web: jim-eckerlein.io

Code: gitlab.com/jim-eckerlein

Heinleinstr. 16 81477 Munich Germany

EDUCATION

Technische Universität München · Computer Science B.S. [since Oct. 2018]

- Programming, Computer Architecture (Assembly)
- · Discrete Structures, Linear Algebra, Analysis, Numerical prog.
- Funktional prog. (Haskell), Algorithms and Data Structures

EMPLOYMENT

UX3D GmbH · GPU Software Engineer [since Jan. 2019]

- Middleware development in C++
- Engine development in C++ using Vulkan
- Contribution to Khronos gITF Sample Viewer [github.com/KhronosGroup/gITF-Sample-Viewer]
- Implement Draco mesh compression in Blender gITF Exporter [github.com/KhronosGroup/gITF-Blender-IO]

MBS Electronic Systems GmbH · Software Developer [June 2017 - Dec. 2018]

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

ESR Labs · Software Developer [Sept. 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

Personal Projects

4D Geometry Renderer

- Developed a Flutter App rendering a spatial slice of 4D geometry.
- Implemented interactive rotation on the XW plane, 3D slice is computed in real time.

JavaScript Editor App

- Android App featuring a syntax highlighting JS editor.
- JavaScript code is parsed in C++, the result passed through the JNI to Java.
- Features a built-in file explorer to persistently store scripts.

SKILLS

Software (proficient): C++/C, Vulkan, OpenGL, Java, Git

Software (familiar): Rust, Haskell, Kotlin, Android, JavaScript, HTML/CSS

Personal hobbies: Programming, Reading, Hiking **Languages:** German (mother-tongue), English, Czech