Maxwell Beck

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Education

Computer Sciences and Mathematics, B.S.

University of Wisconsin-Madison   2021–Expected 2025

Experience

Associate Embedded Software Engineer

Extreme Engineering Solutions – Verona, WI   January–August 2023

- Developed features and fixed bugs in UEFI firmware
- Collaborated on small focus teams to resolve show-stopper bugs
- Assisted hardware engineers with firmware for upcoming processor platform

Software Engineer

Stuttgart Inc. – Crystal Lake, IL   May–July 2022

- Maintained and implemented features on existing C and Python codebases
- Led software development for upcoming products in C++
- Resolved Linux device tree issues for a custom board based on a Variscite SOM

Engineering Services Technician

Stryker Sage – Cary, IL   June–August 2021

- Redesigned product test fixture with Raspberry Pi for upcoming launch
- Analyzed mechanical test data using Excel
- Tested products slated for limited launch

Projects

Flowguide

Automatic, artist guided mesh retopology tool

- Implemented Jakob et al.'s *Instant Meshes* algorithm for performant cross field design
- Wrote custom WebGPU preview renderer and all computation code in Rust compiled to WebAssembly

Light-Up Name Badge
- Designed a fully custom circuit board in KiCAD with an Atmel SAMD21 MCU
- Programmed custom firmware written in Rust including features such as sound reactivity

Skills

Programming Langauges: Rust, Python, C, C++, Java, TypeScript, GLSL, Assembly
Technologies: Linux, Git, Docker, Nix, OpenGL, WebGPU
General: Leadership, Teamwork, Communication, Problem Solving