

Torin Wiebelt

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<http://twiebs.github.io/> <https://github.com/Twiebs>

OVERVIEW

Generalist C/C++ programmer interested in tools, graphics, physics, asset management, embedded systems, optimization, programming language design, compiler technology, and improvements in the software ecosystem.

TECHNICAL SKILLS

C, C++, GLSL, Java, Python, C#, x86_64 ASM,
OpenGL, Linux API, Win32 API, Linux and windows C++ environment
Git, CMake, bash, GitHub

PROJECTS

Toy language Compiler frontend

- LLVM C++ API backend
- Readable C output backend
- Recursive descent parser, single-threaded, minimalistic,
- Simple Example software triangle rasterizer program written in the language.
- Software rasterizer GitHub Repository: <https://tinyurl.com/y8c7esyp>
- Compiler GitHub repository <https://github.com/Twiebs/compiler02>

Game Engine Tech

- OpenGL deferred renderer, CSM, SSAO
- Hotloadable async asset system
- Basic collision detection
- Win32 and X11 platform layer
- Basic Animation system
- GitHub Repository A: <https://github.com/Twiebs/venom>
- GitHub Repository B: <https://github.com/Twiebs/Raptor>

x86_64 Kernel and Operating System

- GitHub repository: https://github.com/Twiebs/tjw_kernel
- Multicore initialization
- Basic USB 2.0 EHCI driver
- WIP implementation of EXT2 Filesystem

Other projects and experiments: <http://twiebs.github.io/projects/>

EMPLOYMENT HISTORY

April 2013 - Present

Tucker-Jones House Inc.

Production Assistant

- Shipping fulfillment, product packaging, customer service, data entry.
- Metal fabrication of metal puzzles, bending, hammering, hardware assembly, machining.
- Filmed and edited videos for YouTube channel.

June 2011 - January 2013

Town of Brookhaven

Student Intern: Planning and Engineering Department

- Conducted site plan research and record research for planning and engineering staff.
- Data entry, filing, records management and recovery.
- Led team in modernizing database of paper files.

EDUCATION

Stony Brook University

Stony Brook, NY,

Program: Computer Science

2015: 60.5 Credits

Suffolk County Community College

533 College Road, Selden, NY 11784

Program: Engineering Science

2012-2014: 47.50 Credits

Ward Melville High School

380 Old Town Road

East Setauket, NY 11733

Graduated: 2012