

## **Torin Wiebelt**

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

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## **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 decent 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](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