ZHENGRONG WANG

Zijing Building 1#129B, Tsinghua University, Beijing, P.R.China, 100084

(+86) 185-6611-9325

seanyukigeek@gmail.com

seanzw.github.io

EDUCATION

Tsinghua University, *Department of Electronic Engineering* — Beijing, P.R. China
Bachlor of Engineering in Electronic Engineering — *Aug. 2012 - Jul. 2016*(expected)
GPA: 91/100

ETH Zürich, *Department of Information Technology* — Zürich, Switzerland
Exchange Student, International Academic Program — *Sept. 2014 - Feb. 2015*
GPA: 5.50/6.00

PROFESSIONAL & PERSONAL SKILLS

Mathematic: Familiar with calculus, linear algebra, probability theory, discrete mathematics, algorithms.

Computer Capability: Skilled at C/C++, Python, MATLAB.

Language Proficiency: English: Toefl 114; German: B1 Level(MCER).

SELECTED PROJECTS & INTERNSHIPS

Yart-cpp, yet another ray tracer in C++ — *Sep. 2015 - Present*
- Implement direct lighting and bidirectional path tracing.
- Lambertian, specular, refraction and Cook-Torrance BRDF are supported.
- Use OC-Tree to accelerate complex mesh.
- Repo: https://github.com/seanzw/yart-cpp

OpenCL@FPGA — *Sep. 2015 - Present*
- Explore OpenCL on Xilinx Alpha Data FPGA.
- Use OpenCL to implement CNN on FPGA.
- Supervised under Prof. Fei Qiao.

MicroPython on FPGA, Dept. EEE, Imperial College London — *Jul. 2015 - Aug. 2015*
- Supervised by Prof. Peter Y. K. Cheung, Head of Dept. EEE.
- Port MicroPython on Altera DE0-Nano-SoC FPGA.
- Build FFT example with DMA.
- Repo: https://github.com/seanzw/MicroPythonFPGA

Computer Vision Engineering Internship, DeepGlint, Beijing — *May. 2015 - Jun. 2015*
- Work in the computer vision group to develop a skeleton recognition system.
- Use OpenGL to develop a "mirror" demo.

Computer Graphics in ETH Zürich — *Sept. 2014 - Dec. 2014*
- Use JavaScript and WebGL to implement computer graphics technologies.
- Ray tracing, normal mapping, BRDF, Perlin noise, B-Spline, etc are implemented.
- Demo: https://seanzw.github.io/ETHZ-CG-2014

AWARDS AND HONORS

Second-class Scholarship for Excellent Freshmen, *Tsinghua University*	*Oct. 2012*
Wang Zhaosheng Scholarship for Excellent Studeng from Dongguan, *Wang Zhaosheng Fundation*	*Oct. 2012*
Second Prize in 30th Chinese National Physics Contest(non-physical group A)	*Dec. 2013*
Ranked No.5 in National Matriculation Test(Science), Guangdong Province (5/600,000)	*Jun. 2012*

Courses in CS

- Compilers by Alex Aiken, Stanford University
- Operating System Engineering, MIT
- Programming Languages by Dan Grossman, University of Washington
- Machine Learning by Andrew Ng, Stanford University
- Algorithms Part I & II by Robert Sedgewick, Princeton University
- Introduction to Computer Science and Programming, MIT
- Introduction to Probability, MIT
- Advanced Computer Graphics, Tsinghua University
- Computer Networks, Tsinghua University
- Software Engineering, Tsinghua University
- Computer Graphics (5.25/6), ETH Zurich
- Computer Vision (5.5/6), ETH Zurich

Children Education Program Volunteer, *Dream a Dream, Bangalore, India*   *Jul. 2013 - Sept. 2013*