510-610-8339

Guanyu He

Objective

To pursue an animation or game related position.

Skills

Language C, C++, C#, Java, Javascript, PHP

Tools Unity3D, Maya, Photoshop, Flash, OpenGL

Education

2012– MSE in Computer Graphics and Game Technology, University of Pennsylvania, PA, 2013(Expected) US.

Graduation expected in Dec.2013

2008–2012 B.S. in Computer Software, Tsinghua University, Beijing, China.

Experience

Project

Course

Project

- 2013.7- Game Developer, Dead End, Game Design Practicum Course, UPenn.
- 2013.8 o A third-person video game where player is trying to escape from a city full of zombies.
 - O Designed the game concept and game story.
 - \circ Worked on the player's controller, game logic, animation design, art works and part of level design.
 - O Created several cool effects with particle system, glowing effect, etc.
 - Used Maya to polish the animation clips from Mo-Cap session, as well as create pieces of animation clips.
 - o Skill utilized: Unity3D, Maya, in C#.
- 2013.9- Programmer, Cuda Ray Tracer, GPU Programming course, UPenn.
- 2013.9 o It is a ray tracer supporting a lot of nice features, and render realistic image
- Course o Based on Cuda 5.5 for parallel computation, wrapped with C++ development
 - o Implemented features including refraction, DOF blur, soft shadow, anti-aliasing, area light, etc.
 - O Develop a hacked ray-tracer method to replace the slow recursive process while return better result.
 - o Skill Utilized: C++, Cuda
- 2013.1- Programmer, Fast Path Tracer, Advanced Topic in Computer Animation course, UPenn.
- 2013.5 o It is an authoring Maya plugin which can accelerate path-tracing process by 20times faster.

Project Project

- O Based on Reconstruct Indirect Light Field for Global Illumination, Lehtinen et al., Siggraph 2012.
- Worked on algorithm implementation and refining.
- O Used BVH and shadow-map technique to polish the source algorithm.
- o Skill Utilized: Maya, C++, OpenGL
- 2013.1- Programmer, Cloth/Smoke/Fire simulation, Physics-based Animation, UPenn.
- 2013.3 O Use physics methods to simulate common objects in real life. The methods include mass-spring system, position-based animation, fluid-simulation and levelset method.
 - O Added some new features to polish the animation result.
 - o Skill Utilized: C++, OpenGL, math and physics