

Objective: Summer internship pursuing computer graphics or low level computer systems

Relevant Experience:

Unix Shell - 2007

Created a drop-in replacement for the BASH shell. This included redirecting input and output to files and applications.

Designed / Implemented File System - 2007

A modern 64bit filesystem utilizing modern features such as tail packing.

Ray Tracer - 2008

Handled soft shadows and both ideal and glossy reflections. The ray tracer also implemented radiosity to improve lighting effects.

Cloth / Fluid Physics Engine - 2008

A spring based cloth physics simulation that allows for several different type of fabrics in addition to collisions. The fluid dynamics part of the simulator is cell based and allows for flow and collisions.

Operating System - 2008

Written in C and using a microkernel structure, the operating system runs in protected mode and handles interrupts, allocates memory and maintains virtual memory. It is capable of running applications.

Education:

High School Diploma, June 2005

The Northwest Academy, Portland, Oregon

Bachelor of Science in Computer Science, May 2010

Rensselaer Polytechnic Institute, Troy, New York

Work Experience:

Freelance Programmer, September 2002 - December 2006

The design and construction web applications in PHP, CSS and Flash. This also involved administrating unix-based machines and some projects in C and C++.

Ellis Empire, Senior Programmer, January 2007 - Present

Utilize mainly C to construct applications that modify the internals of Microsoft Windows at runtime to provide additional features and security benefits.

MoneyTube, LLC., Backend Programmer, February 2008 - Present

Construction of a web application using ruby and sql. This also includes the responsibility of installing and maintaining several GNU/Linux machines.

References:

David Ellis, Owner - Ellis Empire, 360.903.3584

Åke Gregersten, CEO - MoneyTube, LLC., 407.683.9471