

Léo CARNAUT-DELORD

COMPUTER ENGINEER R&D / Engine Programmer #203, 139 11e rue - G1L 2L7 Quebec +1 (581) 994-4814 leo@carnaut.fr www.carnaut.fr

PROFESSIONAL SKILLS

Programming Languages

C++, C#, Java, Objective-C

API **Consoles GUI API**

IDE

OpenGL 4 / ES 2, Direct3D 9/11, stl, boost PS4, PS3, Xbox One, WiiU, Android, iOS

WPF / xaml, Qt, wxWidget

Visual Studio / Assist, X-Code, Qt Creator, Eclipse Unity, 3ds Max, Blender, Photoshop, Flash

Softwares

PROFESSIONAL EXPERIENCE

Frima Studio

Since November 2013

Engine Programmer / Technical Lead - IceWave game engine

- Lead the game engine development team (5 to 10 programmers)
- Develop / optimize / profile on PS4 / PS3 / Xbox One / WiiU / Android / iOS
- Develop / support / maintain the game editor (C# / WPF)
- Develop a particle engine and editor (node base tool)
- Support different projects, mainly Chariot www.chariotgame.com

Frima Studio - Ouébec, Canada - www.frimastudio.com

CDRIN / Frima Studio

January - October 2013

Research & Development - in collaboration with Frima Studio

- Work on IceWave, a cross-platform game engine (mobiles & consoles)
- Implement augmented reality features
- Integrate the physics engine Box2D
- Add 3D features (scene graph, skeletal animation, blended / mixed animations)
- Refactor the renderer to support shaders, render targets & new plateforms
- Implement a 2d deferred renderer
- Develop a new game engine editor (C#, WPF, XAML)

Digital Imagery Research and Development Center - Matane, Canada - www.cdrin.com

Spiders - internship

February - July 2012

PS3, X-box & PC RPG development

- Of Orcs And Men: C++, Game Play, GUI, Debug

Spiders - Paris, Île-de-France, France - www.spiders-games.com

Voxelia - internship

Autumn 2011 - 5h / week

Colored stochastic shadow maps, implementation & benchmarks

- Implement a nVidia paper: C++, OpenGL 4 & glsl

Voxelia - Cravanche, Franche-Comté, France - www.voxelia.com

BulkyPix - internship

August 2010 - January 2011

iPhone & iPad video game development

- C++, Objective-C, OpenGL ES, 2D & 3D games (Hysteria Projet II, 9G effect)

BulkyPix - Vélizy Villacoublay, Île-de-France, France - www.bulkypix.com

EDUCATION

UTBM

2007 - 2012

Computer Science Engineer - Image, interaction and virtual reality

Computer Science, 3d Rendering, Al, Mathematics, & Physics courses

Universiy of Technology of Belfort-Montbéliard (UTBM), Franche-Comté - France

High School Diploma

2007

Scientific Baccalauréat (A level) obtained with honours (mention Bien)

Lycée T. Aubanel - Avignon, Vaucluse - France

PERSONAL WORKS

Bevond

3D RTS

Game Engine

3D Engine

Game Editor Shader Language

Virtual Life Simulation

Winner of the pixel challenge 2015 (48 hours contest) - professional category

Entity & group movement behaviors

Component Based / C++ annotation system

Open GL / GCM, Scene Graph, Deferred Rendering, Particules, ... Scene / Prefab / Resources / Node Graph / JavaScript Scripting Modular language & multi-API (PS3 CG & GLSL output for now)

Unity, Kinect & PS move, on PC

Aliens VS. Marines Fight (about 2 000 entities), QuadTree

