

Anthony Nicholas

Orlando, FL 32828
anicholas.cpp@gmail.com

Objective

To work with a talented team as a senior programmer on exciting and innovative games.

Technical Skills

Languages & APIs

- C, C++, C#, Java
- XML, LUA, jQuery
- Win32, Unix Sockets
- .NET Framework, LINQ
- JavaScript, HTML 5, CSS

Editors & Environments

- Unity
- Autodesk Maya
- Octane Engine
- Perforce/Tortoise SVN/TFS
- MS Visual Studio, Eclipse, Qt

Shipped Titles

- Hot Wheels: World's Best Driver
- NASCAR: Unleashed
- Cars 2: The Video Game
- Hot Wheels: Track Attack
- The Clique: Diss and Make Up

Work Experience

Software Developer – ECS, *Orlando, FL*

(November 2013 – Present)

- Built state-based AI for interactive roaming NPCs that visited Points of Interest
- Created a native-screen-sharing application utilizing C++, LibCURL, and LibVLC
- Implemented a C# script to render a streaming-screen-share video onto a texture in Unity
- Made an informational NPC that pulled FAQ data from a database
- Aided in VM creation that ran project servers and allowed for build redeployment
- Developed a C# wrapper for Chromium Embedded Framework to display web browsers in Unity
- Led a project to retool an existing application for training scenarios, and programmed on-demand avatar swapping and the following UIs: authentication, server lobby, and scenario creation

Generalist Programmer – Firebrand Games, *Melbourne, FL*

(2010 – April 2013)

- Implemented drafting Artificial Intelligence behavior
- Created look-at matrix operations for flying drone Artificial Intelligence
- Generated front-end 2-D and 3-D user interfaces and heads up displays (HUD)
- Worked with artists to create 2-D/3-D visual effects, blended animation, and physics support
- Wrote automated build scripts with CruiseControl managed continuous-integration build server
- Utilized 3-D ray casting, half-space testing, and matrix math to develop a physics-based drift mechanic
- Fixed HUD for varying resolutions and touchscreen support on the upcoming Hot Wheels: World's Best Driver for the Android platform
- Developed online leaderboards for PS3 and Xbox 360, Wi-Fi systems for embedded systems, and setup multiplayer and split screen multiplayer game modes

Other Relevant C++ Experience

- Rendered 3-D graphics for Android using C++ and developed a game engine
- Used TCP for a multi-user chat program including server and client code, and UDP for a multiplayer tank game including server and client code
- Have Artificial Intelligence experience for 3-D flocking behaviors, A*, Dijkstra, Neural Network, predictive targeting, and state-based behaviors
- Wrote character dialog systems, quests, and a quest tracking system that managed scripts at runtime

Education

Bachelor of Science in Computer Science

(2008)

Full Sail University, Winter Park, FL