Leon Hartwig

Austin, Texas, USA

<u>leon+resume@hartwigonline.com</u>

QUALIFICATIONS

Software engineer with thirteen years of experience in the games industry. Primary areas of interest and expertise are AI, gameplay, and multiplayer systems.

EXPERIENCE

Senior Programmer, Zenimax – Arkane Studios, Austin, TX

(Aug 2011 – Sep 2013)

- <u>Dishonored</u> (PC, Xbox 360, PS3): 1st person stealth action/adventure game (Unreal 3).
 - Al characters and behaviors in C++: <u>Tallboy</u>, <u>Wolfhound</u>, <u>River Krust</u>, <u>Butcher</u>, <u>Gravehound</u>.

Senior Programmer, Zenimax – id Software, Richardson, TX

(Aug 2010 – Aug 2011)

- Doom 4 (PC, Xbox 360, PS3): 1st person shooter game (idTech 5).
 - Al characters and behaviors in C++.

Al/Gameplay Programmer, 2K Marin, Novato, CA

(Mar 2008 – Jul 2010)

- The Bureau: XCOM Declassified (PC, Xbox 360): 1st person shooter game (Unreal 3).
 - Performed initial groundwork to expand a single player vertical slice to support multiple players.
 - Implemented incapacitation and revival mechanics for multiplayer co-op.
 - Created a co-op game pace manager inspired by the <u>AI Director</u> of <u>Left 4 Dead</u>.
- Bioshock 2 (PC, Xbox 360, PS3): 1st person shooter game (Unreal 2.5).
 - Contributed to AI, gameplay, and tools using C++, UnrealScript and UnrealEd.
 - Al character and behavior implementation: <u>Brute Splicer</u>, <u>Big Sister</u>, <u>Alpha Series Big Daddy</u>.
 - Prototyped the player Drill Dash ability and other underwater player movement and abilities.

Senior Programmer, Sega – Secret Level Inc., San Francisco, CA

(Jan 2007 – Mar 2008)

- Golden Axe: Beast Rider (Xbox 360, PS3): 3rd person action/adventure 3D combat game.
- Created a tactical AI system that executed behaviors created in a visual state machine editor.
- Led a small group of AI designers and scripters, enabling them to implement character behaviors.

Programmer, BottleRocket Entertainment, San Diego, CA

(Oct 2005 – Jan 2007)

- Xiaolin Showdown (PS2, PSP): 3rd person arena fighting 3D action game.
- Created an effects scripting and simulation system, along with a GUI tool to edit and preview effects.
- Implemented save/load systems and managed TRC compliance for memory cards.

Software Engineer, Valve Corporation, Bellevue, WA

(Jan 2000 – Oct 2003)

- Counter-Strike, Half-Life, Team Fortress, Day of Defeat, Half-Life Source 1st person shooter games
- Developed 1st person shooter games for PC using C and C++.
- Implemented NPC AI, game rules, weapons, HUD, effects, and world objects.
- Added multiplayer features and addressed security issues in multiplayer components.

Software Engineer, Independent

(May 1999 – Jan 2000)

■ Developed *Phineas Bot*, a multiplayer AI ("bot") for *Half-Life*, using C and C++.

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SKILLS

Platforms:
Languages:
Engines:
PC, Xbox 360, PS3, PS2, PSP
C, C++, C#, Lua, UnrealScript
idTech, Unreal, Half-Life, Source

Middleware: Havok Behavior, XNA

Design tools: UnrealEd, Hammer, Maya (as a design tool via plug-ins)

- Proficiency in many tools related to game software development, including:
 - Microsoft Visual Studio
 - o Dev kits for Xbox 360, PS3, PS2, and PSP
 - o ProDG tools for building and debugging on PS3, PS2 and PSP
 - o GCC, Makefiles, and related building tools
 - Perforce, Subversion, Microsoft Visual Source Safe, CVS
 - o Hansoft, JIRA, Bugzilla, TestTrack, Mantis, PVCS Tracker, Software Planner, ALMComplete
- General understanding of most game subsystems such as gameplay, AI, animation, physics, client/server networking and messaging, input, and HUD.
- Familiar with cross-platform development, environments, and processes.
- Ability to work through problems by using not only personal knowledge, but also the wisdom of other people and sources such as books and the Internet.
- Strong ability to communicate with designers, animators, and artists to help them with day to day issues and enable them to add content and features to the game.
- A proactive interest in spreading good development processes and practices to my team and my company.

EDUCATION

Western Michigan University (September 1996 – April 2001)

Majors: Computer Science, Philosophy Minors: Mathematics, Astronomy

Organizations: Upsilon Pi Epsilon (Honor Society for Computing Sciences)