

Billy Zelsnack

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SUMMARY OF QUALIFICATIONS

- 13 years in game development industry, lifetime of interest
- 19 years of programming, all levels
- Knowledge of business and management methods
- Understanding of all aspects of the game development process
- Expertise in many areas of game development
- Excellent communication skills
- Active member of many game development communities
- Pragmatic, passionate, and outspoken programmer

RECENT PROJECTS

- Developed very fast, very stable, and very plausible looking real-time rigid body physics engine (older demo available here: www.shapemaniac.com/bziotd.php)
- Created immediate-mode contact solver API
- Developed 'gamebasis' cross-platform game engine
- Created object-oriented scripting language gbScript
- Created and distributed targeted mass market title (www.shapemaniac.com)
- Conceived and implemented original VGUI (D3D/GL/WIN32) gui (Valve Software)
- Initial (sometimes blind) integration and support of Novodex for tier 0 titles
- Initial port of Novodex and Rocket to X360
- Dual-core physics demo for launch of Intel Dual-core at IDC

RESEARCH INTERESTS

- State of the art real-time physics
- All aspects of game engine technology and workflow
- Next generation GUI design and concepts
- Intuitive physics based construction tools
- Bipedal robot locomotion
- Real-time global illumination approximation

LANGUAGES/SOFTWARE

- C , C++ (7 years) , Java , D , C# , Python , Lua , gbScript , php , ActionScript , nmake
- MSDEV 5-8 , 3DSMAX , PHOTOSHOP , Real-DRAW , Flash MX , VSS , CVS , Perforce

EXPERIENCE

2004-2005	Ageia Technologies	Engineer / FAE hybrid
2002-2004	3rd Digit LLC -- Colorado Springs, CO	Founder/Technical Director
2000-2002	Switchflip LLC -- Sydney, NSW AUSTRALIA	Founder/Technical Director
1999-2000	Valve Software -- Kirkland, WA	Programmer
1996-1999	Rebel Boat Rocker -- Dallas, TX	Founder/Technical Director
1994-1995	3D Realms -- Garland, TX	Programmer
1993-1994	Epic Megagames -- Rockville, MD	Programmer
1991-1993	University of Colorado -- Colorado Springs, CO	Student