## Resumé

Contact Information	Vazovova 3228 143 00, Praha 12 Czech Republic	phone: +420 723 242 516 e-mail: benes@cgg.mff.cuni.cz http://janbenes.net, LinkedIN
Major Projects	<ul> <li>Spectral Acquisition Pipeline (2013–2014), supervised by <i>Todd Harvey</i> and <i>Richard Prum</i>, Yale Univ.</li> <li>Development, design, and documentation of a software pipeline for spectral acquisition of bird skins</li> <li>Interfacing hardware (cameras and filter-wheels using COM/ASCOM, Standa mechanical iris, Shape-Grabber 3D scanner, IP power switch, IBM Turntable)</li> <li>Scriptable acquisition runs, data processing (white balancing, convolving spectral data into avian/human colours), integration with pre-existing parts of the pipeline (HDR combining, 3D reconstruction)</li> <li>C++, MATLAB, OpenEXR, COM/ASCOM, JSON, XML</li> </ul>	
	<ul> <li>Birdviewer (2013-ongoing), supervised by <i>Todd Harvey</i> and <i>Richard Prum</i>, Yale University</li> <li>Visualization of tetra-chromatic avian data</li> <li>Co-designed and implemented novel methods for visualization of tetra-chromatic (avian) color</li> <li>Java, JOGL/OpenGL/GLSL</li> </ul>	
	<ul> <li>City Modelling (2009–2013), Experimental street layout modelling software</li> <li>Proposed and implemented a novel method for procedural modelling of cities</li> <li>C#, CUDA for C, C++/CLI, OpenTK/OpenGL</li> </ul>	
	<ul> <li>Flying Samurai (2009–2010), World War</li> <li>Supervised by Otakar Nieder (Bohemia I)</li> <li>Team-leader, one of two game designers,</li> <li>Team of 4 programmers and several extered beveloped over the course of approximate</li> <li>Defended with extra credit, featured at the C++, Ogre3D, Bullet, OpenSteer, multi-</li> </ul>	Interactive Simulations) programmer rns ely 15 months from specification to hand-in university recruitment website
	<ul> <li>Soccer (2007–2008), an interactive soccer :</li> <li>Designer, programmer, 2D artist</li> <li>Advanced artificial intelligence, good gar</li> <li>C++</li> </ul>	
Work Experience	<ul><li>Intern, ESRI R&amp;D Center Zürich (7/2014–11/2014, ongoing, 5 months)</li><li>Research related to Procedural Modelling Techniques</li></ul>	
	<ul> <li>Student Software Engineer, Ricardo Prague (3/2012-3/2013, 1 year)</li> <li>Migration of several projects to CMake</li> <li>Maintenance of C++ code base</li> <li>Regression testing and manual use case testing</li> </ul>	
Education	<ul> <li>Charles University in Prague</li> <li>Ph.D. (2011–ongoing, expected 2015), Comparison of Science (2008–2011) equivalent</li> <li>Bachelor of Science (2005–2008) equivalent</li> </ul>	c, Computer Science
		arch at Lab of Ornithology $(3/2012-12/2013, 9 \text{ months})$ MUS exchange student $(9/2009-1/10, 4.5 \text{ months})$
Selected Coursework	and Graphs I, Probability and Statistics, Pro Structures I & II, Data Structures I, Data Programming, Automata and Grammars, D	a I & II, Mathematical Analysis I, II, & III, Combinatorics obabilistic Methods <b>Computer Science</b> Algorithms and Data pase Systems, Non-Procedural Programming, Object Oriented esign Patterns, Recommended Programming Practices (Code Computability Theory. <i>Full List upon Request.</i>
Skills	Advanced Proficiency C++, C#, Intermediate Proficiency Mercurial, SVN, CUDA, Java, OpenGL/GLSL Elementary Proficiency SQL, Bash, Python, CMake, COM	
MISC	Student Volunteer, ACM SIGGRAPH 2012, Los Angeles	
LANGUAGES	English (fluent), German (advanced), French (beginner), Czech (native)	
References	Todd A. Harvey, Yale University, todd.harvey@yale.edu, phone number upon request Jaroslav Křivánek, Charles University in Prague, jaroslav.krivanek@mff.cuni.cz, +420 221 914 214 Bernard Lidický, University of Illinois at Urbana-Champaign, lidicky@illinois.edu, (217) 244-1493 Otakar Nieder, BI Simulations, otakar.nieder@bisimulations.com, phone number upon request	