

# Byron Heads

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|--------------------------|---|----------------|
| <b>Objective</b>         | A computer science masters student with experience in game development seeking a career in a professional game studio.  |                |
| <b>Education</b>         | <b>Eastern Michigan University</b>  | 2006 - Current |
|                          | Master of Computer Science  | 2012           |
|                          | Bachelor of Computer Science  | 2009           |
|                          | <b>Lake Superior State University</b>   | 2005 - 2006    |
|                          | Studies in Computer Science and Engineering   |                |
|                          | <b>Washtenaw Community College</b>  | 2003 - 2004    |
|                          | Studies in Robotics and Computer Science  |                |
|                          | Courses Included:   |                |
|                          | <ul style="list-style-type: none"><li>• Software Engineering</li><li>• Computer Graphics</li><li>• Artificial Intelligence</li><li>• Linear Algebra</li><li>• Human Computer Interface</li><li>• Data Structures</li><li>• Real Time Processing</li><li>• Mathematical Modeling</li><li>• Game Programming</li><li>• Algorithms</li><li>• Calculus 1, 2, &amp; 3</li><li>• Software Engineering</li></ul>   |                |
| <b>Projects</b>          | <b>Office Zombie</b>  | 2011           |
|                          | 2D Isometric, Puzzle Game.<br>Written in C++ using SFML. Windows, OS X, and Linux.<br>Project leader of three person team.  |                |
|                          | <b>Target Phonics: Flash Cards</b>  | 2010           |
|                          | 2D Children's flash card game<br>Written in C++ using SDL and OpenGL. Windows, OS X.  |                |
|                          | <b>Ninja Vs. Pirate Zombie Fish</b>   | 2010           |
|                          | 2D Side scrolling action game<br>Written in D using SDL. Window and Linux<br>Made in 48 hours for a Ludum dare competition  |                |
| <b>Summary of Skills</b> | <ul style="list-style-type: none"><li>• C / C++ Programming</li><li>• Assembly Programming</li><li>• System Programming</li><li>• Application Development</li><li>• Windows/XP/Vista/7</li><li>• Linux/BSD/Unix</li><li>• Visual Studio/.Net</li><li>• Source Control, Git, SVN, and CVS</li><li>• Debuggers/GDB</li><li>• Game Development</li><li>• Lab Management, Radmind and Apple Remote Desktop</li><li>• PC and Apple Hardware</li><li>• Server Set-up and Maintenance</li><li>• Manufacturing Cell Maintenance</li><li>• Java Programming</li><li>• D, Perl, and PHP</li><li>• Network Programming</li><li>• Qt, WxWidgets, Java Swing and Windows API</li><li>• Eclipse Java/C/C++</li><li>• Vim/gcc</li><li>• Build Tools Make, CMake and Autoconf</li><li>• Optimizing/gprof/valgrind</li><li>• Databases/MySQL/SQLite</li><li>• Teaching and Tutoring</li><li>• Apple OS X</li><li>• Computer Set-up and Install</li><li>• Industrial Robotics</li><li>• Welding Systems</li></ul> |                |

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| <b>Experience</b>                     | Graduate Assistant/Lab Manager<br><b>Eastern Michigan University Computer Science Dept.</b> 2009 - Current<br>507 Pray Harrold, Ypsilanti, MI 48197 734.487.1063<br><ul style="list-style-type: none"> <li>• Lab Management with Radmind and ARD</li> <li>• OS X and Debian Server Set-up and Maintenance</li> <li>• Open Directory</li> <li>• Lab Assistance and Java Tutor</li> </ul> |  |
|                                       | Student Temporary Programmer<br><b>University of Michigan</b> 2009 - 2010<br>4251 Plymouth Rd, Ann Arbor, MI 48105 734.615.2300<br><ul style="list-style-type: none"> <li>• AFS Cell Support Programmer</li> <li>• Kerberos Support Programmer</li> <li>• Web Team Support Programmer</li> <li>• Server Scripting with Perl and C</li> </ul>  |  |
|                                       | Quality Assurance<br><b>Kelly Services</b> 2006 - 2008<br>508 Grand River #300 Brighton, MI 48116 810.227.2034<br><ul style="list-style-type: none"> <li>• Manufacturing Quality Assurance</li> </ul>   |  |
|                                       | Maintenance Technician<br><b>Hatch Stamping</b> 2004 - 2005<br>635 E Industrial Dr. Chelsea, MI 48118 734.475.8628<br><ul style="list-style-type: none"> <li>• Robot Controller Programming</li> <li>• PLC Programming</li> <li>• Vision System Programming</li> <li>• Industrial Cell Maintenance</li> </ul>   |  |
| <b>Awards<br/>and<br/>Recognition</b> | Ludum Dare Gold Medal<br>2010 EMU Graduate Symposium - GLIF: Graphics Language Instruction Flow<br>2009 EMU Undergraduate Symposium - Reactive Vision Based Navigation in<br>Autonomous Robotic Vehicles<br>2007 ACM Programming Competition<br>2005 ACM Programming Competition  |  |