

## Ethan Madden

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<b>EDUCATION</b>	<i>Purdue University,</i> West Lafayette, Indiana Expected Graduation December 2014 Major: Computer and Information Technology Concentration: Network Engineering Technology	August 2011 - Present
	<i>University of Southern Indiana,</i> Evansville, Indiana Major: Computer Science	August 2009 - May 2011
<b>SKILLS</b>	<i>Languages:</i> C, C++, C#, Java, Python, Bash, Arduino (Processing), $\text{\LaTeX}$ <i>Familiar With:</i> <ul style="list-style-type: none"><li>• Compiling and running scientific applications in a cluster environment</li><li>• Microcontroller Development</li></ul>	
<b>EXPERIENCE</b>	<i>Student System Administrator</i> Rosen Center for Advanced Computing <ul style="list-style-type: none"><li>• Diagnosed and repaired cluster, legacy, and storage systems</li><li>• Wrote scripts to aid in diagnosing issues</li><li>• Maintain several current and former Top500 List Clusters</li></ul>	September 2011 - Present
<b>EXTRA-CURRICULAR ACTIVITIES</b>	<i>ACM Special Interest Group for Robotics</i> Software Team Leader, Head of Outreach <ul style="list-style-type: none"><li>• 2<sup>nd</sup> Place in the Programing Skills competition at Vex World Championships 2013</li><li>• Teach students to program microcontrollers using C</li><li>• Developed dynamic robot mapping environment for Autonomous mode</li><li>• Drove one of the teams robots in both the 2012 and 2013 seasons</li></ul> <i>Student Cluster Competition</i> Member <ul style="list-style-type: none"><li>• Compiled and ran Molecular Dynamics Simulations at SC 2012 (LAAMPS) in Salt Lake City, Utah and ISC 2013 (GROMACS) in Leipzig, Germany</li></ul>	September 2011 - Present  September 2012 - Present
<b>Projects</b>	<i>OpenLibrary</i> <ul style="list-style-type: none"><li>• Developed a Library Database Management System</li><li>• Utilized Amazon Product Advertising API to dynamically fetch book, movie, CD, and game data from Amazon</li><li>• Developed in C# with hooks into a Microsoft Access Database</li></ul> <i>Custom Keyboard</i> <ul style="list-style-type: none"><li>• Cherry MX Switches processed by a Teensy3 Microcontroller running custom firmware</li></ul>	Spring 2013  Summer 2013 - Present

For more information and source code for my projects,  
check my website [www.maddene.com](http://www.maddene.com)