

Ethan Madden

maddene@purdue.edu
(812) 250-1419

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