

Ethan Madden

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EDUCATION

Purdue University,
West Lafayette, Indiana
Expected Graduation Spring 2015
Major: Computer and Information Technology
Concentration: Network Engineering Technology

August 2011 - Present

University of Southern Indiana,
Evansville, Indiana
Major: Computer Science

August 2009 - May 2011

SKILLS

Languages: C, C++, C#, Java, Python, Bash, Arduino (Processing), \LaTeX
Familiar With:

- Oracle SQL and Microsoft Access SQL Databases
- Compiling and running scientific applications in a cluster environment
- Microcontroller Development

EXPERIENCE

Student System Administrator
Rosen Center for Advanced Computing

September 2011 - Present

- Diagnosed and repaired cluster, legacy, and storage systems
- Wrote scripts to aid in diagnosing issues
- Maintain several current and former Top500 List Clusters

EXTRA-CURRICULAR ACTIVITIES

ACM Special Interest Group for Robotics
Software Team Leader, Head of Outreach

September 2011 - Present

- 2nd Place in the Programming Skills competition at Vex World Championships 2013
- Teach students to program microcontrollers using C
- Developed dynamic robot mapping environment for Autonomous mode
- Drove one of the teams robots in both the 2012 and 2013 seasons

Student Cluster Competition
Member

September 2012 - Present

- Compiled and ran Molecular Dynamics Simulations at SC 2012 (LAAMPS) in Salt Lake City, Utah and ISC 2013 (GROMACS) in Leipzig, Germany

Projects

OpenLibrary

Spring 2013

- 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

Custom Keyboard

Summer 2013 - Present

- Cherry MX Switches processed by a Teensy3 Microcontroller running custom firmware

For more information and source code for my projects,
see my website www.maddene.com