maddene@purdue.edu (812) 250-1419

EDUCATION Purdue University,

August 2011 - Present

West Lafayette, Indiana

Expected Graduation Spring 2015

Major: Computer and Information Technology Concentration: Network Engineering Technology

University of Southern Indiana,

August 2009 - May 2011

Evansville, Indiana Major: Computer Science

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

September 2011 - Present

Rosen Center for Advanced Computing

- 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

September 2011 - Present

Software Team Leader, Head of Outreach

- 2nd Place in the Programing Skills competition at Vex World Championshiops 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

September 2012 - Present

Member

 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