MAX KNUTSEN

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EDUCATION

University of Maryland Baltimore County, Baltimore, Maryland
Bachelor of Science in Computer Science, GPA: 3.2
Expected Graduation: May 2016
McLean High School, McLean, Virginia
Advanced Diploma, GPA: 3.6
Graduated: June 2013

RELEVANT COURSEWORK

Discrete Mathematics	Data Structures	Programming Languages
C/Assembly	Statistics for Engineers	Linear Algebra

PROJECTS

VEX Toss-Up   September 2013 – March 2014
Assisted with the design and programming of a small robot that could toss a small ball, move the small and large scoring objects around the game board, and hang itself from a 40" bar for use in a competition.
Boggle   September 2013
Implemented a trie and hash table to quickly search through the dictionary. Used Java to create a responsive and intuitive Graphical User Interface for the classic board game.
Connect Four   January – May 2013
Utilized a Minimax tree to traverse five layers of potential moves and minimize the potential worst case scenario. Created an artistic GUI in Java with animations and sound effects, as well as several menus.

WORK EXPERIENCE

Cougaar Software, Inc. – Junior Software Engineer Intern – Vienna, Virginia   June – August 2014
Designed a modular, goal-oriented robotics framework. Then used Cougaar Software's Active Edge communication network to implement two sample robotics systems. The robotics systems were comprised of multiple Raspberry Pis, which communicated over a distributed computer network.
TIC Summer Camp – Robotics Counselor – McLean, Virginia   Summer 2012 & 2013
Instructed children between the ages of 6 and 16 on design concepts as well as programming in Lego Mindstorms and RobotC.

EXTRACURRICULAR ACTIVITIES

Retriever Robotics	**Information Systems Council of Majors**
Treasurer; Lead Programmer	Member
Council of Computer Majors	**Institute of Electrical and Electronics Engineers**
Member	Member