Monroe Twp., NJ (contact for info)

Kiana Marie McNellis

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EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

May, 2017 GPA 3.86

B.S. in Computer and Systems Engineering

2000 2012

Middlesex County Academy for Science, Mathematics and Engineering Technologies, Edison, NJ

2009-2013

National High School Scholars Program, 30 college credits earned

National Merit Scholar, National Hispanic Recognition Program Finalist, National Honor Society

PROJECTS

Rensselaer Center For Open Source

spring 2014-Ongoing

Redesigning the RPI automatic programming assignment grading server to more effectively rate the quality of over 300 student coding submissions and to display this information back to students and professors in a more effective web interface.

Alfred the Butler Bot, RPI Embedded Hardware Club

fall 2013-spring 2014

Soft drink dispensing self-driving robot based on an Android tablet touch screen ordering system and an Arduino microcontroller embedded control navigating and dispensing system. Part of a five person team.

Artificial Eye - White Cane (aEye), High School Senior Capstone Project

2012-2013

Designed and built ultrasonic sensor based handheld cane for the Blind that provides tactile feedback to the user about the distances to obstacles in four directions. Coded in C++ with Arduino microcontroller, and custom designed and printed PCB and 3D case. Currently working on further development and patenting. Part of two person team.

MathGame Project 2011-2013

Designed and coded an educational game to help students learn and practice math skills at various levels of difficulty, both individually offline and as an online competition. Part of a five person team. Presented at the Association of Mathematics Teachers of New Jersey Conference.

Thomas Edison Museum Project

2011-2012

Created interactive engineering models now on exhibit at the Thomas Edison Center at Menlo Park to teach children about several of Edison's inventions. Part of a team of four.

SKILLS

Programming Languages: C++, Java, Python, Assembly Language, Visual Basic, HTML, CSS, LESS **Software:** Siemens NX CAD, CadSoft EAGLE PCB Design, Microsoft Office Suite, Xcode

WORK EXPERIENCE

Lifeguard and Summer Resident Camp Counselor, Girl Scout Camp Sacajawea

2012-2013

Taught swimming and canoe lessons to young girls (grades 3-8), guarded the pool and waterfront, and assisted in caring for the girls.

EDUCATIONAL EXPERIENCE

- Data Structures, Computer Science, Computer Components and Operations, Embedded Control
- Linear Algebra, Differential Equations, Multivariable Calculus, Physics
- •4 Years of high school studies concentrating in Electrical/Computer Engineering including: C++, Java, Microcontrollers, DC and AC Circuit Analysis, Digital and Sequential Logic Circuits, Interfacing Analog and Digital Circuits, and Digital Communication Systems

LEADERSHIP/ACTIVITIES

Alpha Phi Omega: Service and Leadership Fraternity, Historian (Fall 2014)

fall 2013-present

Society of Women Engineers

fall 2013-present

Rensselaer Center For Open Source

spring 2014-present

Embedded Hardware Club

fall 2013-present

Girl Scouts of America

2000-present

AWARDS

Dean's List, RPI Microsoft Coding Competition 1st Place Fall 2013