Monroe Twp., NJ
(contact for info)

Kiana Marie McNellis
kmcnellis.com

www.linkedin.com/in/kmcnellis
resume@kmcnellis.com

EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY   **May, 2017**
  B.S. in Computer and Systems Engineering   GPA 3.86

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

WORK EXPERIENCE

Verizon Cloud Computing, Hypervisor Team Intern, Lowell, MA   **Summer 2014**
  Working to develop the compute backend to host customers' remote virtual machines, providing the flexibility to choose what resources you need along with the security and reliability necessary for enterprise customers.

Rensselaer Center For Open Source   **spring 2014-Ongoing**
  Redesigned 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.

Girl Scout Camp Sacajawea, Lifeguard and Summer Resident Camp Counselor   **2012-2013**
  Taught swimming and canoe lessons to young girls (grades 3-8), guarded the pool and waterfront, and supervised campers at a traditional overnight outdoor summer camp.

PROJECTS

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.

SKILLS

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

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), Webmaster (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