Kiana Marie McNellis

kiana@kmcnellis.com • www.linkedin.com/in/kmcnellis • (732) 890-4332 • kmcnellis.com

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Education

Rensselaer Polytechnic Institute — Troy, NY
B.S. in Computer and Systems Engineering– GPA 3.86 — May 2017
Deans's list, Alpha Phi Omega National Service and Leadership Fraternity

Middlesex County Academy for Science, Mathematics and Engineering Technologies — Edison, NJ
Electrical and Computer Engineering major — June 2012
National High School Scholars Program, 30 college credits earned, National Honor Society

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Work Experience

Verizon Cloud Computing — Lowell, MA
Hypervisor Team Intern — May '14 – Aug '14
Worked with the hypervisor team to develop the compute backend for cloud hosting. Designed and developed a system to automatically export the memory dumps and log files off of crashed hypervisors to enable the developers and maintaners to be able to more efficiently and easily debug and recover from problems. Helped implement a system and tools for long term secure secret key management across releases.

Rensselaer Center For Open Source — Troy, NY
Software Developer — Jan '14 – Present
Working on designing and implementing an automatic programming assignment grading server to efficiently accept, compile, and grade the output of over 300 student code submissions per week at RPI and to display feedback to the students through a web interface.

Academic & Research Computing Help Desk — Troy, NY
Student Consultant — Aug '14 – Present
Front line technical resource for students for assistance in solving IT and computer related issues.

RPI Computer Science Department — Troy, NY
Data Structures Undergraduate Teaching Assistant — Aug '14 – Present
Assist students to learn C++ and improve their skills in computer science

Girl Scout Camp Sacajawea, GSCSNJ — Newfield, NJ
Lifeguard and Summer Resident Camp Counselor — Jun '12 – Aug '13
Taught swimming and canoe lessons to young girls, supervised campers at overnight outdoor summer camp

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Projects

Alfred the Butler Bot
RPI Embedded Hardware Club — Sep '13 – May '14
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.

Artificial Eye - White Cane (aEye)
High School Senior Capstone Project — Sep '12 – Jun '13
Designed and built an ultrasonic sensor based handheld cane for the Blind that provided tactile feedback to the user about their surroundings in order to be able to navigate their surrounding easier and with more freedom of movement.

MathGame Project
Middlesex Academy Math and Engineering Department — Oct '11 – Apr '13
Designed and coded an educational game by students for students to help learn and practice math skills individually and in an online competition. Presented at the Association of Mathematics Teachers of New Jersey Conference.

Skills

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

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Activities

Alpha Phi Omega Service and Leadership Fraternity *Historian (Fall 2014), Webmaster (2014-)* — Sep '13 - Present
Rensselaer Center For Open Source — Jan '14 - Present
Embedded Hardware Club — Sep '13 - Present
Society of Women Engineers — Sep '13 - Present
Girl Scouts of America — Sep 2000 - Present