Kiana Marie McNellis

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Education

Rensselaer Polytechnic Institute   Troy, NY
B.S. in Computer and Systems Engineering– GPA 3.79   May 2017
Selected coursework: Data Structures, Algorithms, Computer Control and Operations, Embedded Control

Middlesex County Academy for Science, Mathematics and Engineering Technologies   Edison, NJ
Electrical and Computer Engineering   June 2012
National Honor Society, 30 college credits earned, Selected coursework: C++, Java, Microcontrollers, DC and AC Circuit Analysis, Digital and Sequential Logic Circuits, Interfacing Analog and Digital Circuits, and Digital Communication Systems

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.

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
Facilitate lab sections for students in Data Structures, assess knowledge and skills, and help troubleshoot bugs

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

Projects

Homework Server (Rensselaer Center For Open Source)   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.

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 (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 Learning Software (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.

Activities

Alpha Phi Omega Service and Leadership Fraternity		HackRPI Hackathon Club	Sep '13 - Present
Historian (Fall 2014), Webmaster (2014-)	Sep '13 - Present	Embedded Hardware Club	Sep '13 - Present
RPI Relief: Mighty Waters		Society of Women Engineers	Sep '13 - Present
Volunteer and Organizer	Sep '13 - Present		
Rensselaer Center For Open Source	Jan '14 - Present	Girl Scouts of America	Sep 2000 - Present

Skills

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

Achievements

Dean's List (Fall '13-Present), **1st Place RPI Microsoft Code Competition** (Oct '13), **National High School Scholars Program**