Victoria C. Wu

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EDUCATION	*Bachelor of Science*, Computer Science	GPA: 3.9/4.0

University of Missouri - Kansas City, Kansas City, MO
expected December 2014

COMPUTER SKILLS

Languages & Software: C++, Python, Java; ROS, Arduino
Operating Systems: Windows, Linux

RESEARCH EXPERIENCE

University of Maryland, College Park MD — Summer 2014
Space Systems Lab
NSF Mini Robot REU Research Fellow
Research Advisor: Dr. Dave Akin
- Implemented application using ROS and ARToolkit to track pose of small satellite base using visual markers
- Application to be used to verify dynamics of base reaction to attached manipulator movement in parabolic flight
- Presented work at interactive poster session to other REU students

University of Missouri - Kansas City, Kansas City MO — Fall 2013 - Current
School of Computing and Engineering
Research Advisor: Dr. Praveen Rao
- Developed framework for testing optimization algorithms for federated SPARQL queries for RDF data
- Researched essential methodologies of exisiting SPARQL query engines

Auburn University, Auburn AL — Summer 2013
Department of Computer Science and Software Engineering
NSF REU on Smart UAVs Research Fellow
Research Advisor: Dr. Saad Biaz
- Collaborated with teammate in designing and implementing distributed collision avoidance framework using ROS in C++
- Experimentally verified architecture with flight tests
- Presented literature review and final results to REU group
- Awarded Best Undergrad Technical Poster for poster presentation at MINK-WIC (Missouri Iowa Nebraska Kansas Women in Computing) conference

PROJECTS
- Implemented ROS node in C++ to interface with Phidget IMU and output raw IMU data.
- Wrote Arduino sketch that cycled through notes of a pre-programmed melody using a capacitive sensor and speaker.
- Wrote Python script to convert online fiction to EPUB format.

WORK EXPERIENCE

Maritz Research — Jan - July 2012 — Overland Park, KS
Editor
- Analyzed, identified, and improved key issues with customer reports.

Plano Day School — Sept - Dec 2009 — Plano, TX
Teacher's Assistant
- Tutored elementary students with school homework.

	Howard Lee Harkness, Violin Teacher	Dec 2008 - Feb 2009
	Piano Accompanist	Plano, TX

    – Rehearsed with and accompanied violin students in a culminating recital.

EXTRA-CURRICULAR ACTIVITIES

Chair, ACM Student Chapter	Fall 2013 - Current
Secretary, ACM Student Chapter	Fall 2012 - Spring 2013
Member, ACM Student Chapter	Fall 2011 - Current
Secretary, UMKC Robotics Team	Fall 2012 - Spring 2013
Programmer, UMKC Robotics Team	Spring 2012 - Current
Chair, ACM Student Chapter	Fall 2013 - Spring 2014
Secretary, ACM Student Chapter	Fall 2012 - Spring 2013

– Coordinated volunteers and hosted student teams for IEEE Xtreme competition
– Organized and led weekly programming practices
– Taught sessions on basic programming concepts (data structures, graph implementation)

Programmer, UMKC Robotics Team	Spring 2012 - Spring 2014
Secretary, UMKC Robotics Team	Fall 2012 - Spring 2013

– Designed and implemented communication interface in ROS between main motherboard and Arduino
– Implemented high level logic on Arduino for sensing and autonomous navigation through a semi-randomized 2d playing field
– Implemented ROS node in C++ to interface with Phidget IMU and output raw IMU data
– Wrote Arduino sketch that cycled through notes of a pre-programmed melody using a capacitive sensor and speaker

Peer Mentor, UMKC School of Computing and Engineering	Fall 2012 - Spring 2013

HONORS & AWARDS

Vice Chancellor for Student Affairs and Enrollment Management Honor Recipient November 2014	
UPE/ACM Scholarship Recipient	October 2014
Best Undergrad Technical Poster, MINK - WIC Conference	October 2013
Outstanding Senior, UMKC SCE Bachelor of Science in Computer Science	2013
3rd place team, CCSC Central Plains Programming Contest	2012

COMMUNITY SERVICE

CS Tutor, UMKC UPE student chapter	Fall 2013 - Spring 2014
FIRST Tech Challenge Qualifications, Scorekeeper	Feb 2013
FIRST LEGO League Qualifications, Robot Design Judge	Dec 2012