

## Victoria C. Wu

(913)235-1070 || [victoria.chen.wu@gmail.com](mailto:victoria.chen.wu@gmail.com) || [github.com/vptarmigan](https://github.com/vptarmigan)

<b>EDUCATION</b>	<i>Bachelor of Science, Computer Science</i> University of Missouri - Kansas City, Kansas City, MO expected December 2014	GPA: 3.9/4.0
<b>COMPUTER SKILLS</b>	<i>Languages &amp; Software:</i> C++, Python, Java; ROS, Arduino <i>Operating Systems:</i> Windows, Linux	
<b>RESEARCH EXPERIENCE</b>	<i>University of Maryland, College Park MD</i> Space Systems Lab NSF Mini Robot REU Research Fellow Research Advisor: Dr. Dave Akin <ul style="list-style-type: none"><li>– Implemented application using ROS and ARToolkit to track pose of small satellite base using visual markers</li><li>– Application to be used to verify dynamics of base reaction to attached manipulator movement in parabolic flight</li><li>– Presented work at interactive poster session to other REU students</li></ul>	Summer 2014
	<i>University of Missouri - Kansas City, Kansas City MO</i> School of Computing and Engineering Research Advisor: Dr. Praveen Rao <ul style="list-style-type: none"><li>– Developed framework for testing optimization algorithms for federated SPARQL queries for RDF data</li><li>– Researched essential methodologies of existing SPARQL query engines</li></ul>	Fall 2013 - Current
	<i>Auburn University, Auburn AL</i> Department of Computer Science and Software Engineering NSF REU on Smart UAVs Research Fellow Research Advisor: Dr. Saad Biaz <ul style="list-style-type: none"><li>– Collaborated with teammate in designing and implementing distributed collision avoidance framework using ROS in C++</li><li>– Experimentally verified architecture with flight tests</li><li>– Presented literature review and final results to REU group</li><li>– Awarded Best Undergrad Technical Poster for poster presentation at MINK-WIC (Missouri Iowa Nebraska Kansas Women in Computing) conference</li></ul>	Summer 2013
<b>PROJECTS</b>	<ul style="list-style-type: none"><li>– Implemented ROS node in C++ to interface with Phidget IMU and output raw IMU data.</li><li>– Wrote Arduino sketch that cycled through notes of a pre-programmed melody using a capacitive sensor and speaker.</li><li>– Wrote Python script to convert online fiction to EPUB format.</li></ul>	
<b>WORK EXPERIENCE</b>	<i>Maritz Research</i> Editor <ul style="list-style-type: none"><li>– Analyzed, identified, and improved key issues with customer reports.</li></ul>	Jan - July 2012 Overland Park, KS
	<i>Plano Day School</i> Teacher's Assistant <ul style="list-style-type: none"><li>– Tutored elementary students with school homework.</li></ul>	Sept - Dec 2009 Plano, TX

	<i>Howard Lee Harkness, Violin Teacher</i>	Dec 2008 - Feb 2009
	Piano Accompanist	Plano, TX
	– Rehearsed with and accompanied violin students in a culminating recital.	
<b>EXTRA-CURRICULAR ACTIVITIES</b>	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)	
<b>HONORS &amp; AWARDS</b>	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
	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
<b>COMMUNITY SERVICE</b>	3rd place team, CCSC Central Plains Programming Contest	2012
	CS Tutor, UMKC UPE student chapter	Fall 2013 - Current
	FIRST Tech Challenge Qualifications, Scorekeeper	Feb 2013
	FIRST LEGO League Qualifications, Robot Design Judge	Dec 2012