

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 - Spring 2014

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 existing 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

EXTRA-CURRICULAR ACTIVITIES

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

PUBLICATIONS & PRESENTATIONS

Cunningham, A., Wu, V., Biaz, S., & Jones, D. "Decentralized Collision Avoidance Framework for Unmanned Aerial Vehicles." Technical Report, Auburn University. 2013.

Cunningham, A., Wu, V., Biaz, S., & Jones, D. "Decentralized Collision Avoidance Framework for Unmanned Aerial Vehicles." Poster session presented at: 2nd Biennial Missouri Iowa Nebraska Kansas - Women in Computing Conference; 2013 October 15-16; Kansas City, MO.

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

Robot Competition Design committee member, 2016 IEEE R5 Annual Mtg	Fall 2014 - Current
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