Shengrong Yin

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RESEARCH INTERESTS

Wireless Communication, Embedded Systems, Sensing Applications

EDUCATION

University of Houston Ph.D. student, Computer Science	Houston, USA Aug. 2013 - present
Wuhan University of Technology M.S., Electrical Engineering	Wuhan, China Sep. 2011 - Jun. 2013
Wuhan University of Technology B.S., Electrical Engineering	Wuhan, China Sep. 2007 – Jun. 2011

SELECTED PUBLICATIONS

• Yin, S., Gnawali, O., Sommer, P., Kusy, B. "Multi Channel Performance of Dual Band Low Power Wireless Network", *Mobile Ad-Hoc and Sensor Systems (MASS)*, 2014 IEEE 11th International Conference on. IEEE, 2014

o Yin, S., Gnawali, O., Sommer, P., Kusy, B. "Poster Abstract: Concurrent Wireless Channel Survey on Dual Band Sensor Network Testbed", *Mobile Ad-Hoc and Sensor Systems (MASS)*, 2014 IEEE 11th International Conference on. IEEE, 2014

PATENTS

 Li, F., Zhang, J., Liu, X., Jiang, L., Yin, S., Qian, K., "Position and posture measuring system and method for mechanical equipment", CN102322857B (granted)

RESEARCH EXPERIENCE

University of Houston	Houston, USA
Research Assistant at the Networked Systems Laboratory	Jan. 2014 - Present
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Researched on Making Biochemical Threat Detection Economically Sustainable and	10 (001) 00 (001 5
co-developed a data acquisition system with multiple sensors using Raspberry Pi.	12/2014-03/2015
o Designed and implemented a WiFi to IEEE 802.15.4 sensor nodes communication	
system based on OpenWRT and TinyOS.	11/2014-03/2015
Designed and implemented a BeagleBone Cape for an visual	
light communication system.	01/2015-02/2015
Designed and prototyped a wearable device for dancers to capture	
and synchronize their dancing performance with acceleration data.	12/2015-01/2015
 Developed a system for wireless sensor network to procure and analyze 	
the performance of network connectivity and system reliability.	04/2014-08/2014
 Built and debugged a distributed system for wireless sensor network testbed with 	
servers, proxies and sensor nodes utilizing Python, Shell scripts based on Ubuntu 13.04.	01/2014-04/2014
 Validated and enabled a wireless sensor network testbed - Twonet to make it public 	
for the academia usage.	12/2013-01/2014
• Investigated how soon the US government could update their websites during the	
gov't shutdown 2013 using Shell and Python scripts.	10/2013-11/2013
Submitted research conclusion and accepted by slashdot.org	11/2013
Wuhan University of Technology	Wuhan, China
Undergraduate Research	May. 2010 - Dec. 2011

o Designed and implemented an adaptive navigating system for road header 05/2011-12/2011 underground using C and C++. o Designed and implemented a new platform with MSP430 and CC1101 radio stack which can be ported into TinyOS. 10/2010-05/2011 o Designed and implemented a wireless irrigation system with C8051 and nRF2401 05/2010-08/2010 to better precise the water-saving agriculture.

TEACHING EXPERIENCE

• COSC 1304: C Programming Summer 2014 o COSC 1320: Introduction to Computer Science II Spring 2014 o COSC 1410: Introduction to Computer Science I Fall 2013

INTERNSHIPS

IBM Beijing, China Software Engineer Intern Feb. 2013 - May. 2013

o Unified and validated IBM Rational software engineering platform using Java, XML, Python and Shell.

- o Designed and implemented automated and manual test cases for the deployment of IBM cloud services using IBM Rational Application Developer and bash scripts.
- o Constructed and maintained the rapid continuous software development, test automation and delivery through IBM service visualization.

POTEVIO(China) Luoyang, China Oct. 2010 - Sep. 2010

Technical Engineer Intern

• Implemented and debugged a security alarm monitoring system using C++ and OpenCV.

SERVICE

o ACM IPSN 2015, shadow PC member

HONORS & AWARDS

o Student Travel Grant Award for ACM SenSys 2014	2014
o Student Travel Grant Award for IEEE MASS 2014	2014
o Graduate Student Scholarship at UH	2013-2014
o National Scholarship for Masters in China	2012
o Outstanding Graduates of Class 2011 at WUT	2011

COMPUTER SKILLS

- o Open Source: Arduino, Raspberry Pi, BeagleBone, OpenWRT, TinyOS, Contiki, Linux/Unix
- o Programming: C, C++, Python, Bash, Matlab, HTML
- ∘ **Typography:** LATEX, Google Doc, MS Office

AFFILIATIONS & LEADERSHIP

 Student Member of IEEE 2014 Vice-Chairman of the Radio Station at WUT 2009-2010 o Member of the Rollerblade Team of the Student Union at WUT 2007-2011

REFERENCES

Advisor: Prof. Omprakash Gnawali Department of Computer Science University of Houston gnawali@cs.uh.edu

Collaborator: Dr. Philipp Sommer Senior Researcher ABB Corporate Research, Switzerland philipp.sommer@csiro.au