

# Shengrong Yin

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## 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
- 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

## PATENT

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

## EXPERIENCE

### INTERNSHIP.....

#### IBM

*Software Engineer Intern*

**Beijing, China**

*Feb. 2013 - May. 2013*

- Unified and validated IBM Rational systems & software engineering platform using Java, XML, Python.
- Designed and implemented automated and manual test cases for the deployment of IBM cloud services using IBM Rational Application Developer and bash scripts.
- Constructed and maintained the rapid continuous software development, test automation and delivery through IBM service virtualization.

#### POTEVIO(China)

*Technical Engineer Intern*

**Luoyang, China**

*Oct. 2010 - Sep. 2010*

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

### RESEARCH.....

#### University of Houston

*Research Assistant at the Networked Systems Laboratory*

**Houston, USA**

*Jan. 2014 - Present*

- 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.
- Developed an application for wireless sensor network to capture and analyze the performance of network connectivity and system reliability.
- Validated and enabled a wireless sensor network testbed - Twonet to make it public for the academia usage.

## University of Houston

Houston, USA

Research Assistant at the Networked Systems Laboratory

Oct. 2013 - Nov. 2013

- Investigated how soon the US government could update their websites during the gov't shutdown 2013 using Shell and Python scripts.
- Submitted research conclusion and accepted by [slashdot.org](http://slashdot.org)

## SANYHE International Holdings Co., Ltd

Shenyang, China

Junior Researcher

May. 2011 - Dec. 2011

- Designed and implemented an adaptive navigating system for road header underground using C and C++.

## Wuhan University of Technology

Wuhan, China

Undergraduate Research

Oct. 2010 - May. 2011

- Designed and implemented a new platform including both hardware and software for CC1101 radio stack which can be ported into TinyOS.

## Wuhan University of Technology

Wuhan, China

Programmer

May. 2010 - Jul. 2010

- Designed and implemented an irrigation system including both hardware and software to better precise the water-saving agriculture using C.

## TEACHING.....

## University of Houston

Houston, USA

Teaching Assistant

Aug. 2013 - Aug. 2014

- Instructed COSC1410/1320, an introductory computer science course sequence on C++ and Java programming.
- Critiqued and graded assignments, quizzes, led lab sessions, held office hours.

## SERVICE

- ACM IPSN 2015, shadow PC member

## HONORS & AWARDS

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

## COMPUTER SKILLS

**OS:** Mac, Linux/Unix, Windows

**Programming:** Python, Shell, nesC, C, C++, Java

**IDE:** IAR, VisualStudio, Keil, Eclipse, Xcode

**Scientific:** Matlab, Octave, OpenCV, OpenGL

**Typography:** L<sup>A</sup>T<sub>E</sub>X, MS Office, Open Office

**Web:** Photoshop, HTML, CSS, JavaScript

## AFFILIATIONS & LEADERSHIP

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