

<b>Objective</b>	An internship position which can utilize my programming and computer skills.
<b>Programming Experience</b>	<b>Embedded Systems</b> Experience with C on TI MSP430, AVR, and ARM architectures for control and signal processing purposes. Experience with Arduino, Raspberry Pi, BeagleBone, OpenWRT, TinyOS, Contiki
	<b>Wireless Communication</b> Experience with protocol design and radio stack implementation for wireless communication systems. Proficiency with data collection in wireless sensor networks. Proficiency in signal processing, synthesis and analysis programs developed in Python and Matlab.
<b>Related Projects</b>	<b>Wireless AP Integrated with Multiple Sensors</b> Co-developed a data acquisition system with multiple chemical sensors using Raspberry Pi. 2015
	<b>802.11 to 802.15.4 Communication System</b> Designed and implemented a WiFi to IEEE 802.15.4 sensor nodes communication system based on OpenWRT and TinyOS without using a gateway. 2015
	<b>BeagleBone Cape for VLC</b> Created a BeagleBone Cape for a visual light communication system. 2015
	<b>Wearable Device Prototyping for Data Collection</b> Designed and implemented a wearable device for dancers to capture and synchronize their dancing performance with acceleration data. 2015
	<b>Dual Band Wireless Connectivity Measurement</b> Developed a system for dual band wireless sensor network to procure and analyze the wireless connectivity simultaneously. 2014
	<b>Dual Band WSN Testbed Design and Deployment</b> 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; Validated and enabled a wireless sensor network testbed - Twonet to make it public for the public usage. 2014
	<b>US Government Shutdown 2013</b> Investigated how soon US government can update their websites during the shutdown event using Shell and Python scripts; Submitted research report and accepted by slashdot.org. 2013
	<b>TelosC Platform for TinyOS</b> Created a new platform with MSP430 and CC1101 for TinyOS. Implemented CC1101 radio stack which can be ported into TinyOS. 2011
	<b>Wireless Irrigation System</b> Designed and implemented a wireless irrigation system with 8051 and nRF2401 to better precise the water-saving agriculture. 2010
<b>Education</b>	<b>University of Houston, Houston, TX</b> Ph.D. student in Computer Science. Advisor: Prof. Omprakash Gnawali. 2013-present
	<b>Wuhan University of Technology, Wuhan, China</b> Masters (2013) and Bachelors (2011) in Electrical Engineering.
<b>Employment</b>	<b>IBM</b> Designed and implemented automated and manual test cases for the deployment of IBM cloud services using IBM Rational Application Developer and bash scripts. 2013
<b>Teaching</b>	<b>COSC 1410, 1320, 1304</b> Lab assistant with C/C++ Programming. 2013-2014
<b>Publications</b>	<b>IEEE MASS 2014</b> "Multi Channel Performance of Dual Band Low Power Wireless Network" "Poster Abstract: Concurrent Wireless Channel Survey on Dual Band Sensor Network Testbed"
<b>Patents</b>	<b>CN102322857B(granted)</b> "Position and posture measuring system and method for mechanical equipment", designed and implemented an adaptive navigating system for road header underground using C/C++. 2011
<b>Awards</b>	Student Travel Grant Award for ACM SenSys 2014, IEEE MASS 2014 2014 National Scholarship for Masters in China (TOP 1%) 2012 Outstanding Graduates of Class 2011 at WUT (TOP 5%) 2011
<b>Affiliation</b>	Student member of IEEE 2014 Vice-Chairman of the Radio Station at WUT 2010
<b>Service</b>	ACM IPSN 2015, shadow PC member