

LEI WANG

Phone: (409) 692-9235

lw3r6@mst.edu

EDUCATION:

- Missouri University of Science and Technology**, Rolla, MO
Ph.D. Computer Engineering Aug., 2011
- Beijing University of chemical Technology**, Beijing, China
M.S. Computer Engineering June, 2005
- Beijing University of chemical Technology**, Beijing, China
B.S. Computer Engineering June, 2002

WORK EXPERIENCE:

SYS TEC electronic GmbH, Beijing office, China
Embedded Software engineer May, 2006 ~ June, 2009

eCos operating system for SYSTEC ECUcore-5208

2008 ~ 2009

- eCos operating system support.
- Develop and provide development and debugging environment for ECUcore-5208 and its development kit. (Redboot GDB, serial port debug, Ethernet port debug)
- CANopen stack support

Embedded software support for customized motion control card (System integration on site, SYSTEC, Greiz, Germany)

2007 ~ 2008

- CANopen bootloader
- System integration and testing

eCos operataing system for SYSTEC ECUcore-5484

2006 ~ 2007

- eCos, Redboot GDB, CANopen stack

SELECTED RESERCH AND PROJECTS:

Improving tracking accuracy of GPS/INS system | MS&T
May, 2012 ~ present

Improving localization accuracy of received signal strength (RSS)-based schemes in cellular networks | MS&T
Aug, 2011 ~ present

- Reduce error in radial distance estimation due to the multipath fading.
- Estimate localization error by using different cell tower triplets (Cell towers geographical geometry, multipath fading effect)

GPS-INS and RFID localization sensor network system | MS&T

Aug, 2011 ~ Oct, 2011

- Asset on board monitoring with RFID tags
- Asset tracking by using GPS/INS system

HIP (Host Identity Protocol) gateway (on Gumstix) | MS&T

Aug, 2011 ~ Sep, 2011

- Operating system: *Ubuntu linux*

Design and implementation of Digital Coriolis Mass Flow meter | BUCT

2002 ~ 2005

Implementation of Digital Electronic Network Analyzer | BUCT

2001 ~ 2002

PUBLICATIONS:

- L. Wang, M. Zawodniok, "Sensor nodes Localization Using Cellular Network," Proceedings of the 7th Annual ISC Graduate Research Symposium, , Rolla, Missouri, ISC-GRS 2013
- L. Wang, M. Zawodniok, "RSSI-based Localization in Cellular Network," LCN Workshops, IEEE 37th Conference on, pp820 - 826 Oct. 2012.
- Fengxin Liu, Lei Wang, "Digital Coriolis Mass Flow Meter - Design and Realization," Chinese Journal of Sensors and Actuators.Vol.15, No.4, 2002. (*in Chinese*)