

LEI WANG

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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*)