

# Hongwen Lu

## Curriculum Vitae

+86 18810254306

luhongwen@outlook.com

### Education

- 2012–Present **School of Computer Science and Engineering, Beihang University**, *MS in computer application technology*, expected 2015.
- 2008–2012 **Software School, Hebei Normal University**, *BS in Software Engineering*.

### Project Experience

- 2014–present **Distributed smart sensor network system**, *Research Project*, C.  
Multi-drop distributed airborne smart sensor network based on IEEE1451.3 and power line carrier communication. Design and implementation of the smart sensor network protocol stack. The smart sensor has the feature automatic identification and plug-and-play. The real-time request of the system is achieved by the time-sharing scheduler and command response technology. I am responsible for the software design including the design and implementation of protocol stack, socket and memory management. Two papers published.
- 2013–2014 **Implementation of programming language called SIM**, *Personal Project*, C++.  
It is a simple dynamically typed and totally interpreted language. SIM supports function, recursive call, nested function definition and tuple which can hold anything that is legal in SIM. Function in SIM has first-class status, it can be used as the function parameter, returned value and the member of tuple.
- 2012–2013 **Code Reading**, *Personal Project*, C.  
The code is implementation of lua. What had been finished is the front end. From which, knowing about how lua can accomplish the lexical analysis, syntax analysis and the bytecode generation in only one pass.
- 2012–2013 **UDP hole punching**, *Course Project*, C++.  
For the network that use NAT (Network Address Translation), the connection is built from private network to public network. With UDP hole punching technology, the host in public network can connect to the host in private network actively.
- 2010–2012 **Course Design**, *Course Project*, C/C++.  
IM software, tetris, 24 point game, sudoku, student management system.

### Publications

- 2014 **Hongwen Lu**, Lihong Shang, Mi Zhou, *Multi-drop Distributed Smart Sensor Network Based on IEEE1451.3*, in 2014 International Conference on Informatics, Networking and Intelligent Computing.
- 2014 Mi Zhou, Lihong Shang, Hongwen Lu, *Smart transducer network architecture based on power line carrier communication*, CTC 2014.

### Skills

- Computer **C/C++; data structure and algorithm; compilation technology.**
- English **CET-6, the reading of original English books about computer science.**