Lu Shengliang

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EDUCATION

B.Eng. Computer Engineering — GPA 4.53/5.00 Anticipated Graduation: May, 2016 Nanyang Technological University, Singapore

EXPERIENCE

Wincor Nixdorf Internship, Development of Secure Thin Client for ATM Dec 2014 - Now

- Modified and installed XtratuM Hypervisor on x86 PC
- Developed Linux USB device driver
- Developed ATM client using C++/Qt GUI
- Got familiar with microkernel verification / Security issue

URECA Project, Study of Healthcare and Wellness Science using Wearable Sensors through Scientific Literature Approach

Sep 2014 - Jul 2015

- Attached to Sense and Sense-abilities Programme (A*star I^2R)
- Designing text mining tools using Perl & Python for analyzing thesis abstracts
- Regex & Simple Data Structures

Contestant, 2013 ACM-ICPC Asia Jakarta Regional Contest

Oct 2013

- Java Programming Language
- Participated representing School of Computer Engineering NTU
- Solved 3 problems (in team)

Contestant, National Olympiad in Informatics, China

Jul 2010

- Pascal Programming Language
- Solved algorithm problems under Linux environment
- Bronze medalist

Contestant, National Olympiad in Informatics in Provinces, China

2006 - 2011

- Pascal Programming Language
- Solved algorithm problems under Windows environment

Coursework Highlights

- Managed an on-line invigilation software development
 - Agile Project Development Manager
 - Programmed software server in Java
 - Multithreaded, Asynchronous Server
- Built a robotic system that can autonomously explore and traverse unknown areas (in a team of eight)
 - Chief Arduino Engineer/Hardware Leader
 - Designed exploration algorithm & obstacle decrection algorithm
 - Arduino programming, Motor control, Sensor detection
- Used Verilog to implement a five-stage pipelined CPU with MIPS instruction set under simulation
 - With harzard detection & data forwarding
 - Enhanced with static brunch prediction & out-of-order excecution
- Implemented TLB based on understanding of Operating System concept
 - Searching & replacing algorithm
 - Nachos (C++ version) OS environment
- Designed and constructed a blood pulse wave data acquisition system
 - Signal conditioning, data acquisition
 - Used MATLAB for post processing & graphic display

LEADERSHIP ACTIVITIES

Vice President, NTU CAC, Dragon & Lion Dance Troupe

Aug 2013 - May 2014

Founder & Leader, ACM-ICPC Asia Jakarta Regional Contest team "FSM"

Oct 2013

SKILLS

Programming: C/C++, Java, Perl, Python, Shell, Assembly, Verilog, Pascal, LaTeX, MATLAB, Haskell

Operating Systems: Linux full-time user, Windows

Applications: Emacs, Git, Make, Eclipse, Sublime Text, Vim, Xilinx, ModelSim, NetBeans

Hardware Platform: Arduino, ARM Cortex development board, FPGA