

LU SHENGLIANG

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EDUCATION

B.Eng. Computer Engineering — GPA 4.47/5.00
Nanyang Technological University, Singapore

Anticipated Graduation: May, 2016

EXPERIENCE

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 with Perl & Python for analyzing thesis abstract
- Regex & Simple Data Structures

Contestant, 2013 ACM-ICPC Asia Jakarta Regional Contest *Oct 2013*

- Participated representing School of Computer Engineering NTU
- 3 problems solved (in team)

Contestant, National Olympiad in Informatics, China *Jul 2010*

- Solved algorithm problems under Linux environment
- Bronze medalist

Contestant, National Olympiad in Informatics in Provinces, China *2006 - 2011*

- Solved algorithm problems under Windows environment

PROJECT HIGHLIGHTS

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

LEADERSHIP ACTIVITIES

Vice President, NTU Cultural Activities Club, Dragon & Lion Dance Troupe

Aug 2013 - May 2014

Team Leader, ACM-ICPC Asia Jakarta Regional Contest team “FSM”

Oct 2013

SKILLS

Programming: C/C++, Java, Python, Perl, Shell, Assembly, Verilog, Pascal, L^AT_EX, MATLAB

Operating Systems: Linux full-time user (Ubuntu, Fedora, Raspbian), Windows

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

Hardware Platform: Arduino, ARM Cortex-Mx based development board, FPGA