Lu Shengliang

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Objective

Looking for summer internship (June - Aug 2015) which utilizes my skills and abilities in the Computer Engineering Industry, and helps me in broadening and enhancing my current skill and knowledge.

Preferring Java Developer and Big Data Engineer.

Education

B.Eng. Computer Engineering — GPA 4.47/5.00   *Anticipated Graduation: May, 2016*
Nanyang Technological University, Singapore

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 dectection 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) 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, LATEX, 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