

LU SHENGLIANG

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OBJECTIVE

Looking for a 20-week/30-week internship which utilizes my skills and abilities in the Computer Engineering Industry, and helps me in broadening and enhancing my current skill and knowledge.

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

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

Oct 2013

- Participated on behalf of School of Computer Engineering NTU
- 3 questions solved (in team)

Contestant, *National Olympiad in Informatics, China*

Jul 2010

- Solved algorithm questions under Linux environment
- Bronze medalist

Contestant, *National Olympiad in Informatics in Provinces, China*

2006 - 2011

- Solved algorithm questions under Windows environment
- Won several first prizes and second prizes

SKILLS

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

Operating Systems: Linux(Ubuntu, Fedora, Raspbian), Windows, a bit familiarity with Linux Kernel

Applications: Emacs, Eclipse, Xilinx, ModelSim, NetBeans

Hardware Testing Devices: Function Generator, Oscilloscope

Hardware Platform: Arduino, ARM Cortex-M1 based development board, FPGA

PROJECT HIGHLIGHTS

- Building a robotic system that can autonomously explore and traverse unknown areas (in a team of eight)
- Implemented TLB replacing algorithm based on understanding of Operating System concept
- Used Verilog to implement a basic CPU with MIPS instruction set under simulation
- Designed and constructed a blood pulse wave data acquisition system that consists of PPG sensor, signal conditioning, data acquisition, and MATLAB post processing
- Managed an on-line invigilation software development and programmed software server part

LEADERSHIP ACTIVITIES

Chief Arduino Engineer/Hardware Lead, CE/CZ3004 Multidisciplinary Design Project

Aug 2014 -

Project Manager, CE2006 Software Engineering

Jan 2014 - May 2014

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