Cheng ZHANG

230027, Room 421, Electronic Building 3, PO Box 4, Hefei, P.R.China
☎ (+86) 158-5697-7094
✉ StephenPCG@gmail.com
☞ http://onebitbug.me/

Education

2003 – 2006 *Nanjing High School*, Jiangyin, China

2006 – 2010 *Bachelor of CS, University of Science and Technology of China (USTC)*, Hefei, China

2010 – 2013 *ME of CS on Embedded System, USTC*, Hefei, China

Project Experience

Jul 2007 - Oct 2007
Robo Game
USTC, Hefei

Built a complete robot from scrach with sensors, motors and AVR mega16 chips as controller, in collaboration with 3 other classmates. Mainly responsible for controlling algorithm design and implementation.

Apr 2009 - Jun 2009
SkipOOMiniJOOL Compiler
USTC, Hefei

Developed an MIPS assembly code generator as part of a complete compiler for a C-like language named SkipOOMiniJOOL, successfully run on a loongson box.

Jan 2010 - Mar 2010
JOS of MIT Open Course Ware
USTC, Hefei

Wrote an OS with only skeleton given, did the hard work for memory management, user-level environment, preemptive multitasking, file system and spawn, IPC, implemented a simple driver for e100 NIC.

Jan 2011 - July 2011
Linux Maintainence Facilities
Embedded System Laboratory, USTC, Hefei

Working on dead-lock detection, abnormal scheduling detection, filesystem restoring after crash, etc, to improve the reliability and maintainability of Linux Kernel.

Sep 2010 - *
Ethernet Boot Service for USTC Campus
LUG, USTC, Hefei

Developing an Ethernet boot service, so people in USTC campus can boot their computer via LAN to install Linux, experience distros without installation, repair system, etc.

Research Experience

Jul 2009 - Aug 2009
MIPS N32 port of Debian buildd
Institute of Computing Technology, Chinese Academy of Science, Beijing

Ported the Debian autobuilder network software (buildd) to Loongson, a MIPS-based CPU designed by ICT, so it can build packages with MIPS N32 ABI for Loongson.

Dec 2009 - Jun 2010
Android Intrusion Detection Sydtem
USTC, Suzhou

Designed an intrusion detection system in mobile devices, which tries to detect viruses from contextual information such as phone calls, SMS, bluetooth connections, etc, as the graduate thesis program. The designment was based on Android.

Apr 2010 - Sep 2010
Internship in Microsoft Research Asia
Beijing

Interned in Mutimedia Computing group, mentored by Tao Mei. Mainly worked on multimedia application for mobile devices.

Programming Skill

4 yrs' experience with C programming language, proficient of C++ and Java, accomplished more than 100,000 lines' code.

Experienced in both Intel and MIPS assembly language.

Can write sophisticated programs quickly in both Windows and *nix development environment.

Social Activities

- Vice President Linux User Group of USTC
- Maintainer of Open Source Software Mirrors (debian oss) of USTC
- Maintainer of PXE service of USTC
- Administrator of Freeshell Service of USTC
- Board manager of Linux and AnsiC of USTCBBS