

ZHANG XIN

Curriculum Vitæ



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RESEARCH EXPERIENCE

APRIL 2013 – APRIL 2012

Project supported by the COLLEGE STUDENTS RESEARCH AND CAREER-CREATION PROGRAM OF CAPITAL NORMAL UNIVERSITY

- Project Principal
- *Design of FIR Digital Filter based on Nios II*
- Solved the FIR IP core design, programmed in hardware description language to filter audio

JUNE 2011 – JUNE 2012

Project supported by the LABORATORY PROGRAM FOUNDATION OF CAPITAL NORMAL UNIVERSITY

- Project Principal
- *Study on Mass Data Processing Based on Hadoop*
- Analyzed Hadoop's mass data sorting algorithm *TeraSort*, applied to real project as a benchmark
- Won the EXCELLENCE AWARD

APRIL 2011 – APRIL 2012

Project supported by the BEIJING COLLEGE STUDENTS RESEARCH AND CAREER-CREATION PROGRAM

- Project Member
- *Research on Power Consumption and Cache-aware Scheduling Algorithm for Multiprocessor Systems*
- Participated in developed a Cache-aware scheduling algorithm for multiprocessor systems
- Administered the algorithm testing and simulation on Linux system, handled, analyzed experiment data
- Won the second prize of BEIJING COLLEGE STUDENTS RESEARCH AND CAREER-CREATION PROGRAM

APRIL 2010 – APRIL 2011

Project supported by the NATIONAL UNDERGRADUATE INNOVATION PROGRAM

- Project Principal
- *Routing Management Conversion Interface's Design and Implementation under Unix/Linux Systems*
- Studied the routing management function on the Unix/Linux systems (based on GNU routing software *Zebra*)
- Designed and implemented routing management conversion interface

EDUCATION

2009 – 2013 **Undergraduate**
COMPUTER SCIENCE & TECHNOLOGY
Capital Normal University
GPA 3.93/5

HONORS AND AWARDS

- 2014.01 **Excellent Student of State Key Laboratory of Computer Architecture**
Institute of Computing Technology, Chinese Academy of Sciences
- 2013.12 **Scholarship for Students of Chinese Academy of Sciences**
Chinese Academy of Sciences
- 2013.06 **Excellent graduates of Capital Normal University**
Capital Normal University
- 2012.04 **The Excellence Award of Beijing College Students Research and Career-creation Program**
Beijing Municipal Education Commission
- 2012.04 **The Excellence Award of Laboratory Program Foundation of Capital Normal University**
Capital Normal University
- 2011.12 **The 3rd prize of the 6th National Information Technology Application Level Competition**
The Education Management Information Center of Ministry of Education, China
- 2011.10 **The 2nd prize of the 2nd Beijing College Students Computer Application Contest**
Beijing Municipal Education Commission
- 2010, 2011, 2012 **National Scholarship for Encouragement**
Ministry of Education of China

WORK EXPERIENCE

SEPT. 2013 – SEPT. 2014

VIDEO PROCESSING RESEARCH AND DEVELOPMENT
Institute of Computing Technology, Chinese Academy of Sciences, Intern

- Integrating Intel Quick Sync Video Hardware Acceleration to Enhance Performance of video processing platform on both Windows and Linux
- Developing the real-time streaming media encoding/transcoding system based on FFmpeg