

BO CHEN

X11# Student Apartment ◇ Shanghai Jiaotong University ◇ Shanghai 200240, P.R. China
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EDUCATION

No.1 High School of Fuzhou, Fuzhou, Fujian, China 2009.8 - 2012.6
Shanghai Jiao Tong University, Shanghai, China 2012.9 - 2016.6(Expected)
Department of Electrical Engineering
GPA: 3.80/4.3
Ranking 8th/170 in Dept. of Information Engineering

RESEARCH & ENGINEERING EXPERIENCES

Shanghai Jiao Tong University, Shanghai, China 2015.3 - Present
Wang Lab, EE & CS Department, School of Computational Science & Engineering
Research Program Member

- **Restricted Boltzmann Machine Based Binary Ising Markov Random Fields Estimation**
- Supervisor: **Prof. Xinbing Wang**
- Deep Belief Nets to extract features
- Cosine similarity to back propagate the error signal to the network
- l_1 -regularized logistic regression to estimates the node interactions

Shanghai Jiao Tong University, Shanghai, China 2015.3 - 2015.6
Course IVA, School of Electronic Information and Electrical Engineering
Course Program Member

- **Smart Car System**
- Supervisor: **Prof. Yan Yuan**
- Joystick, accelerometer, voice and button to control the car
- Barcode based dynamic identity verification
- Face recognition based tracking

Shanghai Jiao Tong University, Shanghai, China 2015.3 - 2015.6
Course Operating System, School of Electronic Information and Electrical Engineering
Course Program Member

- **Smartphone Based Health Evaluation System**
- Supervisor: **Dr. Ling Gong**
- A smart system to evaluate the health status of the user, including inner and outer factors
- Accelerometer to infer the physical state of the user, microphone to evaluate the ambient noise, camera to detect the heart, and broadcast and service component to monitor the usage of the phone's resources

Shanghai Jiao Tong University, Shanghai, China 2013.12 - 2015.5
Participate in Research Program, School of Electronic Information and Electrical Engineering
PRP Program Member

- **Smartphone Based Mobile Clothes Search System**
- Supervisor: **Prof. Chengnian Long**
- Extraction of the fingerprint of the clothes
- Use SURF as the match algorithm

Shanghai Jiao Tong University, Shanghai, China
Course III A, School of Electronic Information and Electrical Engineering
Course Program Member

2014.9 - 2014.12

- **DC-DC Switch Power Supply System Controlled by MCU**
- Supervisor: **Yan Yuan**
- Turn 20V to 30V input into 5V to 10V output through the way of adjusting PWM wave by AVR ATmega16 and MSP430
- Do ASK and FSK demodulation to the signal
- Design and implement the LC bandpass filter

Shanghai Jiao Tong University, Shanghai, China
Course Windows Application Design (C++) , School of Computer Science
Course Program Member

2013.3 - 2013.6

- **University Student Helper**
- Supervisor: **Dr. Tianhong Zhuang**
- Implement the curriculum schedule, the memo and the account book using MFC
- AdoDB based add, delete, edit and search function

AWARDS

2014 C-Level Scholarship of Excellence
2013 B-Level Scholarship of Excellence

TECHNICAL STRENGTHS

Programming Languages	Proficient in C/C++, Python, Java, Matlab, VHDL, Verilog
Tools	experiences with Assembly language, R, Scala, \LaTeX
Other Tools	Proficient in Labview, Microsoft Foundation Class, experiences with Open GL, Multisim, HFSS, ADS, AdoDB, MongoDB
Research	Experiences with Support Vector Machine, E-M algorithm, Neural Networks, Deep Learning

LANGUAGE SKILLS

English	Good writing, listening, reading and fair speaking abilities <ul style="list-style-type: none">• TOEFL iBT 100/120• GRE 322/340
Chinese	Mother tongue