**ZHENGYU HAO**

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**Education**

**2014.8-2016.5 University of Illinois at Chicago, Master of Science** in

Department of Electrical and Electrical and Computer Engineering

Computer Engineering (GPA3,18/4.0 )

**Course work:** Computer Algorithms, Approximation Algorithms, Neural Networks, Parallel Processing, Computer Networking, Computer Architecture, Computer Systems Design, etc.

**2008.8-2012-6 Beijing Jiaotong University, Bachelor of Engineering in**

School of Mechanical, Electronic Precision Instruments and

and Control Engineering Measurement and Control Engineering

(GPA 3.0/4.0)

**Project Completion**

* **“Neural Network” course Project: Basketball game prediction**
* Built Back Propagation NN and LAMSTAR neural network model in Matlab
* Training neural network with statistics of several seasons from NBA, then make prediction by using other statistics, calculated the correctness rate.
* Improved 10% accuracy then previous model.
* Included in Professor Daniel Graupe’s book “**DEEP LEARNING NEURAL NETWORKS**” as a sample
* **“Neural Network” course Project: Character recognition**
* Use a 8\*8 matrix with 1’s or 0 to express 3 Character A, B, C.
* Built neural network model in C language or Matlab
* Train the Neural Network with learning sample, then use the trained Network to recognize the test sample.
* Recognize success rate are all close to 100%
* Neural Network used in project including BP neural network, Hopfield neural network, Counter Propagation neural network, Convolution neural network, LAMASTER neural network
* **“Parallel Processing” course Project: Processing TSP problem with Load Balance**
* Implemented “Master-Slave” parallel processing model to solve TSP problem in C++
* Improved running time from O(n!) to O(n!)/P, P denote to number of processors.
* **“Computer Systems Design” course Project: Examine the “input-output behaviors” of the given combinational circuit benchmarks**
* For each circuit benchmarks, I used atalanta, a software, to generate test patterns as input. Then write code in C language to calculate the 1’s density of output
* Test whether HD density will change when enlarge random input patterns. I generate random patterns and calculate the density in C language.

**Work Experience**

* + - 1. **Beijing Delphi Technology Development Co., Ltd**

**Electrical Engineering Internship**

* Learning CAN bus
* Write program in C language to send and receive text in CAN bus
* Examine the function of CPU in automobile

**2011.6-2011.9 Beijing Delphi Technology Development Co., Ltd**

**Electrical Engineering Internship**

* Analyse bench’s circuit draw and repair them

**Skill Can Do**

* C/C++ language (main language)
* Matlab (familiar)
* Python (familiar)