Haochen Xie

Tel: +86 15502919770
Email: hcxie20@126.com
Address: Xidian University, Xi'an, Shanxi, China

Objective

Applying for M.S in Electronic Engineering

Educational Background

Xidian University   ***09/2014-present***

Dept. of Electronic Engineering

Specialty: Electronic and Information Engineering   **GPA**: 3.37/4（top 10%）

Degree: Bachelor of Engineering (Expected in 06/2018)

TOEFL: 96(R26 L28 S20 W22)   **GRE**: 321(V154 Q167 W3)

Research Experience

Intelligent Home System Based on Artificial Neural Network   ***04/2015-07/2017***

Advisor: Xinquan Lai (Xidian University)

National Collegiate Innovation and Entrepreneurship Competition

Aimed to design a user-oriented and self-adaptable intelligent home system, which consists of three parts: the sensor part, the central control system part and the power part. The central control system can control the movement of windows, based on the environment parameters analyzed from sensor data and calculated with the artificial neural network algorithm.

➤ Searched the literatures, collected useful materials and papers as project manager

➤ Hardware: assembled sensors in host computer

➤ Software: programed host computer, include the artificial neural network construction, debugging and training

Computer Network   ***03/2017-06/2017***

Advisor: Prof. Jianlong Tang (Xidian University)

Aimed to design a kind of chat software similar to Twitter, based on python multi-threaded method, with a simple database and communication procedures.

➤ Searched the literatures, collected materials and papers

➤ Learned UI interface produce and server-side database design by watching the teaching videos and do some research on official website

➤ Summarized the project's progress and wrote the paper

Image Enhancement Technique of Digital Image   ***03/2017-05/2017***

Advisor: Jimin Liang (Xidian University)

Optimizing the digital image quality by using the enhancement technique via two approaches: histogram processing and homomorphic filter.

➤ Researched useful materials about image enhance technique of digital image and the two related methods: histogram processing and homomorphic filter, browsed a large amount of literatures and papers

➤ Programed by MATLAB, analyzed results and selected the optimum method to process

➤ Summarized the project's progress and wrote the report

The Circuit Approach of Methane Alarm System   ***09/2016-12/2016***

Advisor: Xin Liu (Xidian University)

Aimed to design a circuit which can detect the exist of methane leak and can achieve the function to give the alarm within a short time

➢ Chose the topic and designed the circuit

➢ Applied and implanted gas sensors, diodes and buzzers

➢ Tested and debugged extensively to achieve the goal

Mathematical Modeling   ***09/2015-12/2015***

Advisor: Prof. Langping Shui (Xidian University)

Aimed to calculate the shortest route, starting from the Yongji Island, via the most of islands in Paracelsus Islands and returning to the same island eventually, using C++ language.

Responsibility:

➢ Searched the literatures, collected useful materials and papers about the ant colony algorithm, genetic algorithm, etc.

➢ Found the optimum algorithm based on a great number of tests and analysis

➢ Programed by C++ language independently

Practice Experience

Xi'an iRain IOT Technology Service Co. Ltd   ***07/2017-present***

➢ Assisted in designing the interface program and testing application program based on Web Services

➢ Learned Go language referring to the samples on Github website and programed independently

Intern-lab Program in Sungkyunkwan University   ***02/2017-03/2017***

➢ Learned Python independently by studying lots of API manuals

➢ Learned the application and principle of Tensorflow

Intern in Lab Electronic Equipment Structural Design Laboratory   ***07/2016-08/2016***

Advisor: Prof. Baoyan Duan (*Xidian University*)

➢ Accomplished the signal process programming part by FPGA and modeling in CAD platform

➢ Took part in the presentation to show results

Social Work

Member of Model United Nations

     Participated in many Model UN conference as Public Relation Minister, organized several outreach and sponsorship activities.

Summary of Qualifications

Electronic Engineering: Grasped in a solid fundamental knowledge of electronic components, and the ability of gauging bonding integrated circuit

Digital and Simulation Technique: Proficient in C, C++, Python, MATLAB, Multisim