

XIAO PENGFEI

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EDUCATION

University of Electronic Science and Technology of China (UESTC) , Chengdu, China Glasgow College, UESTC (GCU) Watt Class Member <i>Bachelor of Science in Electronic and Information Engineering</i>	09/2013-06/2017
University of Glasgow (UoG) (joint program with UESTC) School of Engineering <i>Bachelor of Engineering in Electrical and Electronic Engineering (Second Upper-Class Honor Degree)</i> <ul style="list-style-type: none">GPA: 3.64/4.0; Rank: 24/122	09/2013-06/2017
University of Melbourne , Melbourne, Australia School of Computing & Information Systems <i>Master of Information Technology (Distributed Computing)</i>	02/2018-till now

RESEARCH EXPERIENCES

University of Electronic Science and Technology of China , Chengdu, China <i>Personalized Recommendation via Importance Ranking</i>	10/2016-04/2017
<ul style="list-style-type: none">Proposed and designed a recommendation algorithm by rating importance of users or items; used the rating results as one of the inputs of the collaboration filtering framework to improve accuracy and efficiency of recommendationProduced a 5% improvement in accuracy compared with traditional collaborative filtering algorithm	
<i>Curriculum Design: Automatic Robot Car</i>	04/2015-07/2016
<ul style="list-style-type: none">Devised an automatic robot car controlled by Microprogrammed Control Unit(MCU) based on ST NUCLEO-F446RE with mbed platform (C++) support; took charge of the obstacle avoidance function designPlaced three HC-SR04 ultra-sonic sensors with ranging distance from 2cm to 400cm, a resolution of 0.3cm and a measuring angle of 30 degrees in front of the car and on both sides and to detect and avoid obstaclesProgrammed the MCU to calculate the distance according to the reflection time of the ultrasonic: utilized 'Moving-Average Filter' method to filter noise and set up a 'wake' signal to refresh the sensor if it was out of ranging distanceThe robot car could finally run automatically and go across a bridge over the lake based on my ultra-sonic sensor module	
<i>Curriculum Design: Facial Recognition Program</i>	11/2014-01/2015
Designed a program to detect and recognize individual faces based on MATLAB	
<ul style="list-style-type: none">Employed median filtering and normalization methods to preprocess photos, and principle component analysis to simplify dataUsed support vector machine to train data and Viola-Jones method to detect facesAchieved accuracy of more than 90% for individual face and more than 50% for group photo	
<i>Curriculum Design: Optical Pulse Sensor</i>	03/2014-06/2014
<ul style="list-style-type: none">Collaborated in building instrument based on MBED LPC1768 to measure pulse by sensing reflection of light from blood in fingersIn charge of circuit design on OrCAD Capture and electronic component construction	

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INTERNSHIP

National Supercomputing Center in Shenzhen, Shenzhen, China 01/2017-02/2017

Java Programmer

- Built Hadoop platform under Linux system and preprocessing raw data including principle component analysis, normalization, smoothed moving average and regression for further analysis

HONORS

Second Class People's Scholarship, UESTC 2013-2014; 2014-2015; 2015-2016; 2016-2017

Community Service Scholarship, UESTC 2014-2015

Excellent Student Cadre, Student Union, UESTC 2014-2015

EXTRACURRICULAR ACTIVITIES

Students' Representative Council of University of Glasgow, UESTC, Chengdu, China 03/2015-07/2016

Class Representative

- Served as an important liaison between UESTC and UoG
- Collected students' feedback about the teaching mode or other general questions by doing survey, interviews and focus groups

Entertainment Department of Student Union of GCU, UESTC, Chengdu, China 03/2014-06/2015

Director

- Directed a 15-member team to hold the first bilingual 2015 New Year's Party in my college
 - Invited 30 student performers from Sichuan Conservatory of Music and organized times rehearsals; built strong relations with School of International Education of UESTC and invited around 100 foreign students to join the Party
 - Led a one-month promotion campaign that successfully attracted over 1000 participants
 - Conducted a Bilingual Hosting Selection and selected 4 talented hosts from 29 candidates
- Managed an 18-member performance group and arranged over 10 shows in campus

International Exchange Office, UESTC, Chengdu, China 10/2014-06/2015

Cultural Exchange Ambassador

- Facilitated the visits of foreign campus guests, including sharing university's history and helping them with necessary arrangements
- Arranged the receptions for the professors from The Institution of Engineering and Technology(IET) and organized 3 academic panels with the professors from UESTC

Cultural Exchange Summer Camp, UK and Ireland 07/2014

Team Leader

- Assisted professionals from UoG and Association of Chinese Professionals in Ireland (ACPI) to arrange curriculum and coordinate activities
- Led a three-member team in writing the project report summarizing weekly learning experience with local students, and earned second-highest score among six teams

SKILLS

Languages: native Mandarin; fluent in English (IELTS – 7.0; GRE – V: 156, Q: 164, AW: 3.0)

Computers: JAVA; Python; SQL

Operating System: Windows, Linux

Simulation Software: MATLAB; Multisim; OrCAD Capture