

# XIAO PENGFEI

Parkville, University of Melbourne, Victoria, Australia  
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## EDUCATION

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

## RESEARCH EXPERIENCES

<b>University of Electronic Science and Technology of China, Chengdu, China</b> <i>Personalized Recommendation via Importance Ranking</i>	10/2016-04/2017
<ul style="list-style-type: none"><li>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 recommendation</li><li>Produced a 5% improvement in accuracy compared with traditional collaborative filtering algorithm</li></ul>	
<i>Curriculum Design: Automatic Robot Car</i>	04/2015-07/2016
<ul style="list-style-type: none"><li>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 design</li><li>Placed 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 obstacles</li><li>Programmed 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 distance</li><li>The robot car could finally run automatically and go across a bridge over the lake based on my ultra-sonic sensor module</li></ul>	
<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"><li>Employed median filtering and normalization methods to preprocess photos, and principle component analysis to simplify data</li><li>Used support vector machine to train data and Viola-Jones method to detect faces</li><li>Achieved accuracy of more than 90% for individual face and more than 50% for group photo</li></ul>	
<i>Curriculum Design: Optical Pulse Sensor</i>	03/2014-06/2014
<ul style="list-style-type: none"><li>Collaborated in building instrument based on MBED LPC1768 to measure pulse by sensing reflection of light from blood in fingers</li><li>In charge of circuit design on OrCAD Capture and electronic component construction</li></ul>	

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## INTERNSHIP

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

*Java Developer*

- 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)

**Programming Languages:** JAVA; Python; SQL

**Operating Systems:** Windows; Linux

**Software:** Eclipse; PyCharm; MATLAB; Multisim; OrCAD Capture