

ZHENHUA XU

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EDUCATION

Harbin Institute of Technology

Bachelor in Electronics and Information Engineering

- GPA: 91.19/100 or 3.79/4.00 (ranking **1/87**)

Harbin, China

Sep 2014 – present

University of California, Los Angeles

CSST (Cross-disciplinary Scholars in Science and Technology) program

- GPA: 4.00/4.00
- Participated in research project supervised by Prof. Lei He of ECE department

Los Angeles, USA

Jul 2017 – Sep 2017

SELECTED AWARDS AND HONORS

- *Guanghua* Scholarship (3/252 in comprehensive ranking) 2017
- First prize in National Innovation Project (**team leader**, top 1%) 2017
- **National Scholarship** (3/252 in comprehensive ranking) 2016
- Meritorious Winner in MCM/ICM (**team leader**, top 7%) 2016
- Provincial 3rd prize in “*TI cup*” Electronics Design Contest (**team leader**, top 15%) 2016
- Provincial 2nd prize in “*iCAN*” innovation contest (**team leader**) 2016
- *Dongdixin* Scholarship (15/247 in comprehensive ranking) 2015
- First class *Renmin* Scholarship (top 2% in GPA ranking) 2016& 2015
- University merit student (top 5% in comprehensive ranking) 2017&2016&2015
- Best debater in “*HIT cup*” BPD 2015
- Provincial first prize in National High School Mathematics League (NO.49 in Henan province) 2013

ENGLISH PROFICIENCY TEST

- TOEFL: 105 (R 28 / L 27 / S 23 / W 27) Oct 2016

PUBLICATIONS

- Zhenhua Xu, Yun Zhang *et al.*, “*A new Shadow Tracking Method to Locate the Moving Target in SAR Imagery Based on KCF*”, Jul 2017, presented at the 6th International Conference on Communications, Signal Processing, and Systems (CSPS), indexed by EI-indexed and ISIP

RESEARCH EXPERIENCE

University of California, Los Angeles (Department of Electrical and Computer Engineering)

Research Assistant to Professor Lei He

Los Angeles, USA

Jul 2017 – Sep 2017

Medical images allocation system simulation based on multi-agent

- Built low-complexity and high-efficiency online allocation system to organize medical images for doctors.
- Designed allocation algorithms to maximize overall profit, accuracy, and completion rate.
- Designed learning algorithms to make system intelligent and adaptable.
- Tested allocation system by using multi-agent simulation methods.

Harbin Institute of Technology (Department of Electronics and Information Engineering)

Research Assistant to Associate Professor Yun Zhang, Deputy Dean of the Department

Harbin, China

Apr 2017 – Jun 2017

Image processing for SAR and remote sensing images

- Leveraged optical image processing methods to process SAR and remote sensing images for target detection and tracking—far more efficient and convenient than traditional methods.
- Experimented with existing detection and tracking methods and found the best one. Then optimized the algorithm to make it more suitable for our project.
- Pre-processed imagery and designed algorithms to improve entire system performance.
- Prepared groundwork for final graduation project oriented around this research.

Harbin Institute of Technology (Department of Electronics and Information Engineering)

Leader of a team of four people, supervised by Mr. Shengyang He

Harbin, China

Jun 2016 – Dec 2016

National innovation project - Smart Glove

- Designed gloves to capture hand gestures and transfer commands to control hardware via Bluetooth.

- Built hardware framework and completed related programming work.
- Designed algorithms together with teammates.
- Won first prize and obtained highest score in final evaluation (top 1%).

Harbin Institute of Technology (Department of Electronics and Information Engineering)

Harbin, China

Research Assistant to Associate Professor Yun Zhang, Deputy Dean of the Department

Oct 2016 – Apr 2017

Semi – physical simulation platform for communication and Radar

- Built well-designed semi–physical simulation platform for experimentation for communication and Radar conveniently and of high accuracy.
- Built hardware framework together with teammates.
- Designed wave patterns for simulation and programmed control hardware.

ADDITIONAL INFORMATION

Extracurricular Experiences

Academic director of lecture department of HIT International Communication Association

Jul 2015 – Jul 2016

- Made arrangements for “*HIT cup*” BPD (British Parliamentary Debate).
- Hosted conferences and lectures.
- Received foreign guests.

Volunteer for the Independent Recruitment Test

May 2016

- Helped examinees before and after exam.
- Showed parents of examinees around campus and university history museum during exam.

Member of School soccer team

Feb 2015 – Oct 2015

Interests

- Sports: swimming, badminton, and soccer

Computer and Language Skills

- Competencies in MATLAB, C, and JAVA.