

Xietian Wang

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EDUCATION BACKGROUND

Xidian University (XDU) , Xi'an, China	Sept. 2017 - June 2021
School of Telecommunication Engineering (STE)	
Major: Information Engineering	
Expected Degree: B. E.	
Overall GPA: 3.9 / 4.0	Ranking: 1 / 142

ENGLISH PROFICIENCY

TOEFL: 102 (R: 29, L: 28, S: 25, W: 22)	Aug. 25, 2019
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HONORS & AWARDS

1. 2020 China Scholarship Council (CSC) & Mitacs Globalink Research Internship Scholarship	Feb. 2020
2. National Scholarship 2018-2019	Nov. 2019
3. National Scholarship 2017-2018	Nov. 2018
4. 1st Prize in 4 th National Academic English Vocabulary Contest for College Students	Jul. 2019
5. 2nd Prize in 2019 National English Competition for College Students (NECCS)	May 2019
6. 1st Prize in Xidian Mathematical Model Competition	May 2019
7. 1st Prize in 30 th "Spark Cup" Extracurricular Academic Science Technology Works Competition	Dec. 2018
8. Xidian Excellent Student	Nov. 2018
9. Bronze Prize in 4 th China College Students' "Internet Plus" Innovation and Entrepreneurship Competition (Campus Qualification Trials)	Jul. 2018
10. 3rd Prize in 2018 National English Competition for College Students (NECCS)	May 2018
11. Xidian Outstanding Student Leaders	May 2018
12. 1st Prize & 3rd Prize in 29 th "Spark Cup" Extracurricular Academic Science Technology Works Competition	Dec. 2017

RESEARCH EXPERIENCE

1. Study on Cell's Gene Expression Curve in Different Status of Cell Growth , Beijing Internship in IDG/McGovern Institute for Brain Research at Tsinghua University Advisor: Professor Yinqing Li	Jul. - Aug. 2019
<ul style="list-style-type: none">Applied the dimension reduction process to the cell's gene expression matrix acquired by RNA-seq and ATAC, and generated the 3D data points connected with time and status of cell growthUsed MATLAB to fit the 3D pseudo-time curve of data points' development track, projected the corresponding status of gene expressions into the pseudo-time axis, and observed the change of gene expression	
2. EEG Analysis-based Testing and Early Intervention for Autism , Xi'an, China --sponsored by National Students' Platform for Innovation and Entrepreneurship Advisor: Professor Xiao Zeng & Professor Jun Li	Oct. 2018 - present

Role: Project lead

- Leading 3-person team
- Analyzing the time and frequency domain of the data by using MATLAB on 16-electrode EEG data collecting equipment
- Conducting classification and diagnosing ASD and its level with the method of logistic regression
- Assisting in programming the game used for intervention by using Unity3D

3.The Development of EVIS Online Intelligent Fitness System, Xi'an, China

Mar. 2019 - present

Advisor: Professor Yangli Wang & Professor Rui Song

Role: Project lead

- Leading and Organizing 7-person team
- Calculating deviation by referring to the standard posture of fitness coach
- Using MATLAB to evaluate and give the suggestions of posture improvement

INDEPENDENT PROJECT EXPERIENCE

1. User Prediction Based on App Behavioral Data

May 2019

Programming language: MATLAB; Software: MATLAB R2016A

- Developed MATLAB programs
- Processed the data cleaning and classification and obtained calculation function by algorithms such as PCA, Logistic Regression, Naive Bayes, and Neural Network
- Calculated confusion matrix, and computed precision, recall ratio, F-score, AUC, KS, etc.
- Implemented the machine learning by finding optimal parameters through mesh searching algorithm, and anticipated the possibility of target users purchasing behavior

2. User Interaction Intelligent Entertainment System

Mar. – June 2019

Programming language: Java, Arduino, HTML, CSS; Software: MATLAB R2016A, Android Studio, Arduino, Sublime Text, Adobe Premiere

- Created Android code and implemented visual interface human-computer interaction platform, including score display, user data maintenance, voice introduction of operation instruction, etc.
- Developed STM32 control code as the central control unit to analysis the Android data and generate the next operation of FPGA
- Designed website using HTML and CSS code, created poster, and recorded the promotional video

3. Design of traction-typed lifting device based on Xilinx FPGA

Sept.- Nov. 2018

Programming language: Verilog HDL; Software: Vivado

- Programmed Verilog to capture click events and judging the input of the key
- Implemented precise control through detected sensor data and judging the angle of the server motor

4. Return Stroke Device Design by Using C++ and Arduino

Jul. - Aug. 2018

Programming language: Arduino; Software: Arduino

- Developed control code of Arduino to receive and process the command
- Drove the baffle to the designated spot by calling the server motor, to intercept the moving balls

5. Intelligent Baggage Steward

May – Jul. 2018

Programming language: C; Software: Keil uVision5

- Developed STM32 program
- Located the user by ultrasonic positioning and infrared ray positioning
- Adjusted the speed, direction of the car by generating PWM wave

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| 6. Intelligent Light Intensity Self-Checking Alarm System
Programming language: C; Software: Keil uVision5 <ul style="list-style-type: none"> • Used 51 SCM to receive data from photosensitive sensor and judge the light intensity • Reminded the user of eye health in the case of damaging light intensity | Nov. 2017 |
| 7. Temperature Controlled Fan with LED
Programming language: C; Software: Keil uVision5 <ul style="list-style-type: none"> • Adjusted the rotate speed of the fan in line with the room temperature through reading data from the temperature sensor • Implemented temperature and speed display on seven-segment-display LED | Nov. 2017 |

INDUSTRIAL INTERNSHIP EXPERIENCE

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| 1.ANXUN Information Science & Technology Co. Ltd, Hefei, China <ul style="list-style-type: none"> • Assisted in designing and optimizing programs | Aug. 2019 |
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SOCIAL EXPERIENCES & ACTIVITIES

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| 1.Vice President of College Student Science and Technology Associations <ul style="list-style-type: none"> • Organizing the programing training and serve as the lecturer • Instructing the usage of equipment and instruments in the CSSTA laboratory • Managing and maintaining the equipment and instruments of the CSSTA laboratory | Sept. 2017 - present |
| 2.Xidian Student Union, member <ul style="list-style-type: none"> • Organizing literary and artistic activities | Sept. 2017 - present |
| 3.Xidian Youth Volunteers Association, member <ul style="list-style-type: none"> • Teaching and helping mentally handicapped person weekly | Sept. 2017 - present |
| 4.Xidian Loving-heart Volunteer Club, member <ul style="list-style-type: none"> • Assisting and Interacting with autistic children face to face weekly | Sept. 2017 – present |

PROFESSIONAL SKILLS

Programming skills: C, MATLAB, Verilog HDL, Java, Android, R, Linux bash, Python and Html, CSS

Software tools: Visual Studio, Devc++, Eclipse, MATLAB 2016A, Jupyter Notebook, Anaconda, Pycharm, Android Studio, Keil uVision5, Proteus, Arduino, Cura, EDFbrowser, sublime text, Vivado, Arduino, AutoCAD, 3ds Max, Au, Pr, Ps, R studio

Operating Systems: Linux, Windows, Android

Proficient: MATLAB, C, Verilog HDL
 Familiar: Python, Android
 Experienced: R