

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

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

RESEARCH EXPERIENCE

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| 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 Yingying 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
Role: Project lead | Oct. 2018 - present |

- 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