

# Xiong Chun

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## Education Background

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09/2012-06/2016 **University of Electronic Science and Technology of China (UESTC)**

**Software Engineering Embedded Systems / Bachelor** GPA: 3.5/4; Rank:11/105

## Research Experiences

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**Hardware and Software Development of STEM Education [Company R&D project]** 06/2016-07/2019

- STEM Innovative education begins in primary and secondary schools. Students can learn programming by graphical programming software, they can create product by intelligent electronic hardware while learn ways and tools of innovation creation.
- Developed a graphical programming software platform, a range of intelligent hardware.
- Developed 8 products,
- 15 patents and 7 software copyrights.

**Non-invasive blood glucose meter [Company R&D project]** 01/2015-05/2016

- Diabetes is one most common diseases that is difficult to cure. A non-invasive blood glucose meter will solve the problem of traumatic blood collection. A new type of detection instrument that uses infrared light analysis to measure human blood glucose data needs to be designed.
- Project design, circuit design, algorithm design, 2 patents.
- Patent1: **C. Xiong**, W. Jiang, C. S. Gao, J. H. Huang, "A wireless non-invasive intelligent blood glucose meter" CN Patent for Utility Models, Serial No:CN206482579U, 18/05/2016.
- Patent2: **C. Xiong**, W. Jiang, C. S. Gao, J. H. Huang, "A wearable smart blood glucose meter" CN Patent for Utility Models, Serial No:CN205795708U, 18/05/2016.

**Smart stethoscope [Company R&D project]** 01/2015-05/2016

- To develop a new type of stethoscope, which will collect the human lung sounds, quantify and mark the symptoms, collect large amounts of data, and use machine learning to extract features for auscultation and judgment of children's cough and respiratory diseases.
- Project design, 3D modeling, data acquisition, data algorithms, patent writing.
- Patent: **C. Xiong**, W. Jiang, C. S. Gao, J. H. Huang, "Digital stethoscope and a method for filtering heart sound to extract lung sound" CN Patent for Invention, Serial No:CN106022258A, 18/05/2016.

**Smart vacuum cleaner [School Innovation Fund Project]** 09/2013-05/2014

- Based on single-chip microcomputer control, embedded operating system and ultrasonic sensor barrier technology a smart vacuum cleaner was designed with an implementation of algorithm that is to achieve the maximum indoor area cleanup.
- Using Altium Designer to draw PCBs, make circuit boards, transplant tiny operating systems, and write control programs.
- 1st Prize in National University Student Intelligence Design Competition, 2014.

**Embedded word processing system development [School Innovation Fund Project]** 03/2013-04/2014

- Using EM310 module programming on the single-chip microcomputer to achieve short messaging, telephone dialing and GPRS Internet access.
- Using Keil programming control microcontroller to achieve GPRS.

## Work / Internship Experiences

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|                 |  |                         |
|-----------------|--|-------------------------|
| 07/2016-06/2019 | <b>Sichuan Taiji Xiong Technology Co., Ltd.</b>  | <b>Founder and CEO</b>  |
|                 | Team building, product development, marketing and company operating;<br>Software and Hardware Design and Development of STEM Education;<br>Product application market research and analysis;<br>Carried out courses and sold products in thousands of schools. |                         |
| 01/2015-06/2015 | <b>CRRC Information Technology Co., Ltd.</b>   | <b>R&amp;D Engineer</b> |
|                 | Participated in freight train operation control optimization system;<br>Embedded system control terminal software system development;<br>Software white box test, black box test and function test development.  |                         |
| 06/2014-08/2014 | <b>Chengdu Haocaiduo Agricultural Technology Co., Ltd.</b>   | <b>R&amp;D Engineer</b> |
|                 | Built a ZigBee-based smart agricultural monitoring system for the company's agricultural production bases and realized agricultural production informatization.  |                         |
| 08/2013-10/2013 | <b>Chengdu Pandora Information Technology Co., Ltd.</b>  | <b>Project Manager</b>  |
|                 | Crawled network data and updated website background data. Completed www.tsichuan.com "Sichuan fun" website background data maintenance.  |                         |

## Awards and Recognitions

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- 1st Class People's Scholarship, 2014.
- 1st Prize in National University Student Intelligence Design Competition, 2014.
- National Inspirational Scholarship, 2015.
- The Samsung Scholarship, 2015.
- Innovative and Entrepreneurial Outstanding Individuals of UESTC, 2015.
- 2nd Prize in Excellent performance in STEM 2015 International Summer School (Beijing Normal University), 2015
- 1st Prize in China (Chengdu) International Software Design & Application Competition, 2016.
- The Silver Award in National College Graduates Entrepreneurial Competition, 2016.
- Undergraduate Excellent Bachelor Dissertation of UESTC, 2016.
- 1st Prize in the China-US Young Maker Competition in Beijing, 2018.

## Extracurricular Activities

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|-----------------|--|---------------------------|
| 09/2013-06/2015 | <b>Baidu Campus Club</b>   | <b>Chairman</b>           |
|                 | Built a learning organization for Internet technology, organized training on Android development, java web development and product manager, trained and recommended talents to go to Baidu for internship. |                           |
| 12/2012-05/2014 | <b>Embedded Studio</b>   | <b>Founder and Leader</b> |
|                 | Applied for 3 school Innovation fund projects, invited 4 professors as instructors and learnt to become one system architect, members to participate in computer related competitions.                     |                           |

## More Information

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Computer Skills: Proficient in Python, C, Matlab, SolidWorks, Altium Designer.

Hobbies: Badminton, Swimming.

Self-Assessment: Energetic, Self-motivated and Cooperative, with a pleasant mature attitude.