

ZIQUIANG REN

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self-motivated, hard working

🎓 EDUCATION

Xi'an Jiao Tong University (XJTU), Xi'an, China

2014 - Present

3rd year undergraduate in Automation Science and Technology, anticipated 2018.

GPA: 83/100

related courses: Data Structure, C/C++, Automatic Control Theory, Signals and Systems, Digital Signal Processing, Pattern Recognition

👥 EXPERIENCE

Institute of Automation, Chinese Academy of Sciences, Beijing

2016

Summer Intern Tutor: Chunlei Huo

In the State Key Laboratory of Pattern Recognition, I participated in the study of digital image saliency detection and segmentation.

- Learn and master the digital image processing methods and principles. Apply the visual saliency detection algorithm on PASCAL VOC.
- Learn how to flexibly use Latex to typeset a paper.

XJTU Key Lab For Intelligent Networks and Networks Security

Nov. 2016 - Present

Intern Tutor: Chao Shen

Engaged in an individual project: infer the user's password sequence utilizing the smartwatch sensor they weared when entering their password.

- Write JAVA program on an android platform to call the Microsoft Band API to select sensor data from Microsoft Band.
- Use the machine learning method to classify the sensor data to get the user's password sequence.
- A paper on this project will be published later.

XJTU SoC Design Center

Sept. 2016 - Oct. 2016

Intern

Participated in a project which to identify and classify the people in a video set.

- Use caffe to establish a deep neural network model to improve the face recognition algorithm.
- Use python spider to get custom datasets from Taobao.com and Jingdong.com

Robocon Competition

Sept. 2015 - Jun. 2016

The main programmer of XJTU 16th Roboteam

Robocon is a well-known college student robot competition in the Asia-Pacific region, which is held once a year. I devoted myself to this competition fervidly.

- Maintain and adjust the two-dimensional ground positioning algorithm for robot using dual-encoder and gyroscope.
- Design and maintain the robot's human-computer interaction system.
- Design and maintain a robot navigation system that identifies a two-dimensional code through a camera.
- Won the national first prize of the competition, ranked 3rd in China.

National Undergraduate Electronic Design Contest

Jul. 2016

Lead Programmer

In this contest, we made a little car that could move forward and turn automatically by detecting the metal track.

- Maintain an intelligent car control system based on STM32 microcomputer.

- Won the second prize of the contest.

Mechanical Innovation Design Competition(Shaanxi Division)

May. 2016

Lead Programmer

In this contest, we made a robot that can automatically grab the luggage and place it in the desired position in accordance with the command signal.

- Responsible for circuit construction and control algorithm design and maintenance.
- Won the first prize in Shaanxi Division.

⚙️ SKILLS

- Programming Languages: C/C++, Python, Matlab, HTML
- Computer and Platform: Linux(Ubuntu), Windows, Virtualization (VMWare), STM32
- Software and Framework: Keil, Caffe, Tensorflow, Latex, etc.

♥️ HONORS AND AWARDS

Mathematical modeling contest second prize

Sept. 2015

Siyuan Scholarship

Oct. 2015

Excellent Intern Scholarship

Oct. 2016

📖 MISCELLANEOUS

- Blog: http://blog.csdn.net/xjtu_richthofen/
- GitHub: <https://github.com/RichthofenRen/>
- English: CET-4 and CET-6, TOEFL : 86 (Last year's data, I'm ready to get a higher score about 105+ this year.)
- Interests: Jogging, traveling, coddling and so on.