

# Chao Jiang

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## Education

- 2017.9 – now ■ M.Sc. Software Engineering, Beijing University of Posts and Telecommunications, Beijing.
- 2013.9 – 2017.6 ■ B.Sc. Spatial Information and Digital Technology, Wuhan University, WuHan. Professional Ranking Ninth(9/57,GPA:3.53)

## Experience

- 2018.3 – now ■ Internet of Things and Intelligent Systems Lab,BUPT.  
■ Autonomous navigation robot system
- This robot system can autonomously navigate in a outdoor environment and give warning when it detect someone nearby.
- Responsible for Visual SLAM module, which use a binocular camera to reconstruct the 3D environmental information.
- Responsible for people detection, which use deep learning to process video stream from the camera.
- Responsible for remote control on web page which use ROS-Bridge and rSSH.
- 2017.10 – 2018.1 ■ Course Project  
■ Extend OS Frame for VxWorks
- Responsible for optimizing memory management.
- Using variable-length memory pool design reduces internal and external fragmentation when memory is allocated.
- 2016.11 – 2017.2 ■ Software Engineering Institute Lab,WHU.  
■ Ocean oil ship exploration system
- Responsible for parsing XML file and optimizing matrix operation by C++.
- Implement a universal function to parse XML file by recursive method.
- Optimize sparse matrix multiplication which has 3 times better performance.

## Skills

- English-CET6(519) Fluent in reading, writing and speaking competencies.
- Familiar with coding language such as C++, Python and etc.
- Familiar with Computer Network, Data Structure, Database, Operating System and etc.
- Familiar with Linux System, such as Ubuntu and Fedora.
- Have math foundation and familiar with Linear Algebra and Probability Theory.

## Miscellaneous Experience

- Awards ■ First-class Scholarship(BUPT. 2017 and 2018)  
Social activists and Outstanding person(WHU. 2014-2016)  
Special Prize of China Graduate Contest on Smart-city Technology and Creative Design  
(Project: Autonomous outdoor navigation robot based on ROS.)
- Patent ■ A kind of autonomous navigation robot system.(Invention. Patent no: 201811213935.2)