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 Projcet**

◾ **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 10 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)