# Man Xie

## Personal Data

Address: 985 Sandtowm Pl. Dr. SW, Marietta, GA, US
Phone: 6788183360
email: manxie@gatech.edu

## Work Experience

| Apr 2016-Jul 2018 | Narwal Intelligent Technology (Dongguan) Co., Ltd. |
|---|---|

*Director (Software Engineer), Mapping and Localization Group*
Provide strategic leadership and solid work to the following:
- Develop reliable long-term localization algorithms for home floor vacuum.
- Design and implement mapping and localization system logic algorithm.
- Competitor products analysis.

## Education

| Aug 2018 - Current | PhD in Computer Science, **Georgia Tech**, Atlanta |
|---|---|

Research: "Solving Manipulator Dynamics with Factor Graph"
"Kinodynamic Motion Planning using Factor Graph"
"Soft Robot Modeling and Simulation using Factor Graph"
GPA: 4.0/4.0                           | Advisor: Prof. Frank Dellaert

| Jan 2014 - Dec 2015 | Master in Aerospace Engineering, **Georgia Tech**, Atlanta |
|---|---|

Research: "Autonomous Landing Accuracy of Guided Airdrop System"
"Soft Contact Dynamics of Airdrop System Landing "
GPA: 3.88/4.0                          | Advisor: Prof. Mark Costello

| Sept 2009 - Jun 2013 | Bachelor in Mechanical Engineering, **Huazhong Univ. of Sci. & Tech**, Wuhan, China |
|---|---|

GPA: 90/100

## Publication

| RSS, Under Review | M. Xie, F. Dellaert, *"A Unified Method for Solving Inverse, Forward, and Hybrid Manipulator Dynamics using Factor Graphs"* |
|---|---|
| RSS, Under Review | M. Xie, F. Dellaert, *"Batch and Incremental Kinodynamic Motion Planning using Dynamic Factor Graphs."* |

## Scholarships and Honors

| Sept. 2010 | **State Scholarship** |
|---|---|
| Sept. 2011 | **Chinese Academy of Science Scholarship** |
| Sept. 2012 | **Sany Heavy Industry Scholarship** |
| July. 2012 | Championship in **Federal International Robot-Soccer Association (FIRA) Robot-soccer Competition** |
| July. 2012 | Championship in **International Humanoid Robot Olympic Games (IHOG)** |

## Professional Skills

Program Language: C++, PYTHON
Software & Platform: MATLAB, MATHEMATICA, SOLIDWORKS, ROS, MOVEIT