

Xiangyu Liu

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EDUCATION

Nanyang Technological University, Singapore

- M.Sc. in Computer Control and Automation Aug 2018 – Jun 2019
 - Dissertation: Quantitative Trajectory Evaluation Criterion and Long-term Enhancement for Multi-Robot SLAM
 - Adviser: Prof. Danwei Wang
 - Focus: Multi-Robot SLAM, Computer Vision.
 - Cumulative GPA: 3.88 / 5.0

University of Electronic Science and Technology of China, Chengdu, Sichuan, P.R.China

- B.Mgt. in Electronic Commerce Sep 2014 – Jun 2018
- B.Eng. in Electronic Engineering
 - Dissertation: Research on Organizational Attraction of JD.COM in the era of Smart Logistics
 - Guaranteed Postgraduate Qualification,
 - Cumulative GPA: 3.47 / 4.00

SKILLS

- Excellent in C/C++; Skilled in Python.
- Excellent in Linux, ROS, Matlab, experienced in Qt
- Excellent in computer vision, SLAM theory, programming with popular CV libraries like OpenCV.
- Good understanding in neural network, course-attending in control theory, control network, etc.
- Sufficient hands-on experience in robot development.

AWARDS & SCHOLARSHIPS

- **National First Award**, in National University Electronics Design Contest, MoE China Aug 2017
For contest project: panel-ball controlling device
- **National Champion**, in RoboMasters National University Robot Contest, MoE China & DJI Oct 2015 – Aug 2016
For contest project: RM series robots.
- **National Bronze Award**, in JD X Robot Challenge Contest, JD.COM Apr 2017
For contest project: Automatic Sorting Robot
- **Awards and Scholarships**, in several other minor university contests held in UESTC Sep 2014 – Jun 2018
- **Guaranteed Postgraduate Qualification**, in UESTC Sep 2017
For cumulative outstanding performance in national and provincial contests

PROJECTS

Robotics ADVANCe Laboratory, NTU

- Master Dissertation Oct 2018 – Apr 2019
 - Project: Place Recognition and Localization for Multi-Robot SLAM
 - Supervisors: Prof. Danwei Wang
 - Focus: SLAM, Multi-Robot SLAM, Computer Vision

RoboMasters Contest Lab, UESTC

- RoboMasters Contest Robot Design Oct 2015 – Aug 2016
 - Project: UAV for RM Contest
 - Supervisors: Prof. Liping HE
 - Focus: Robot Contest, Computer Vision, Target Recognition, Item Grabbing
- JDX Robot Challenge Jan 2017 – Apr 2017
 - Project: Auto-sorting robot
 - Supervisors: Prof. Liping HE
 - Focus: Robot Contest, 3D Vision, Target Recognition, Item Grabbing
- National University Electronic Design Contest Aug 2017
 - Project: Panel-ball Control Device
 - Supervisors: Prof. Jiexiong Ding
 - Focus: Robot Contest, Target Recognition, Control

JD.COM X Department, JD.COM

- Internship, Embedded Algorithm Engineer Sep 2017 – Dec 2017
 - Project: Auto-Warehouse AGV
 - Work: Joined the R&D group of auto-warehouse AGVs, help to design and debug the AGV algorithms for smart logistic application.
 - Focus: Smart Logistics, AGV.

WORK EXPERIENCE	Zhejiang University , Hangzhou, China <ul style="list-style-type: none"> Research Assistant, State Key Lab of CAD&CG, College of Computer Science Jun 2020 – Present <ul style="list-style-type: none"> CAD&CG: Computer Aided Design and Computer Graphics Project: Multi Robot Collaborative SLAM Supervisors: Prof. Guofeng Zhang
CAMPUS ACTIVITIES	Work-Zone of Innovation And Entrepreneurship , School of Management and Economics, UESTC <ul style="list-style-type: none"> Chief Manager Jul 2015 – Sep 2017 <ul style="list-style-type: none"> Improved the talent-training concept and mechanism. Led the team to finish 11 university-level projects, and won over 10 prizes including 3 national and 1 provincial prizes. Gymguys Training and Fitness Company , Branch in. Chicago, USA <ul style="list-style-type: none"> Internship Jul 2015 – Aug 2015 <ul style="list-style-type: none"> Did marketing work as an assistant of the marketing director. SMU Entrepreneurship Program , SMU, Singapore <ul style="list-style-type: none"> Course Program Jan 2016 – Feb 2016 <ul style="list-style-type: none"> Attended SMU entrepreneurship courses, including innovation mind, entrepreneurship management, and team management, etc. Finished the business plan training program with the entrepreneurship idea of “THE LAST MILE”, which was focusing on problems of O2O delivery.
LANGUAGES	<ul style="list-style-type: none"> Chinese: Native language. English: Fluent (IELTS: 6.5(6)).
REFERENCES	<ul style="list-style-type: none"> Dr Danwei WANG, Professor Division of Control and Instrumentation, School of Electrical and Electrical Engineering, Block S2 Nanyang Technological University, Nanyang Avenue, Singapore 639798 Office phone: (+65) 6790 5376 School fax: (+65) 6793 3318 E-mail: edwwang@ntu.edu.sg WWW: http://www.ntu.edu.sg/home/edwwang Dr Liping HE, Professor PhD, Professor, School of Mechatronics Engineering, University of Electronic Science and Technology of China, Tel.: +86-18118010621 Email: lipinghe@uestc.edu.cn Address: No.2006, Xiyuan Ave, West Hi-tech Zone, 611731 Chengdu, Sichuan, P. R. China
PUBLICATIONS	<p>[1]X. Liu, J. Chen, S. Wu, X. Ren, and Z. Zhang. Technical report of auto-sorting robot in jdx robot challenge (only in chinese). Technical report, University of Eletronic Science and Technology of China, 10.13140/RG.2.2.24865.22881, 2017.</p> <p>[2]Xiangyu Liu. Research on organizational attraction of jd.com in the era of smart logistics (only in chinese). Bechalor Thesis, University of Eletronic Science and Technology of China, 10.13140/RG.2.2.34092.69760, 2018.</p> <p>[3]Xiangyu Liu. Quantitative trajectory evaluation criterion and long-term enhancement for multi-robot slam. Master’s thesis, Nanyang Technological University Singapore, 10.13140/RG.2.2.14698.88002, 2019.</p>