

Xiangyu Liu

EMail: xiangyu002@e.ntu.edu.sg • Tel: +86 15919920687 • WeChat: lxy13438107982

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.

integrated Vision intelligent perception laboratory (iVip), Tsinghua University

- Remote internship May 2020 – Present
 - Project: multi-agent reinforcement learning application on formation control
 - Supervisors: A.P. Fei Qiao
 - Focus: multi-agent reinforcement learning, formation control

**OTHER WORK
EXPERIENCE**

Nanyang Technological University, Singapore

- Research Associate, NTU-Siemens Cooperative Lab, ERIAN Aborted
 - Before the starting date of the job, my work pass application was rejected by MOM, due to the COVID-19 situation. And as a consequence, the job offer was withdrawn.

Zhejiang University, Hangzhou, China

- Research Assistant, State Key Lab of CAD&CG, College of Computer Science Jun 2020 – Present
 - CAD&CG: Computer Aided Design and Computer Graphics
 - Supervisors: Prof. Guofeng Zhang

**CAMPUS
ACTIVITIES**

Work-Zone of Innovation And Entrepreneurship, School of Management and Economics, UESTC

- Chief Manager Jul 2015 – Sep 2017
 - 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

- Internship Jul 2015 – Aug 2015
 - Did marketing work as an assistant of the marketing director.

SMU Entrepreneurship Program, SMU, Singapore

- Course Program Jan 2016 – Feb 2016
 - 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

- Chinese: Native language.
- English: Fluent (IELTS: 6.5(6)).

REFERENCES

▪ **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