

Sha Yi

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Education

Carnegie Mellon University

MS IN ROBOTICS

Research Advisor: Prof. Katia Sycara

Pittsburgh, USA

2017 - 2019

The Hong Kong Polytechnic University

BENG IN ELECTRONIC AND INFORMATION ENGINEERING (FIRST CLASS HONOR)

Final Year Project Supervisor: Prof. Chao Lu

Hong Kong, China

2013 - 2017

Publication

Sha Yi, Changjoo Nam, Katia Sycara, “Indoor Pursuit-Evasion with Hybrid Hierarchical Partially Observable Markov Decision Processes for Multi-Robot Systems”, *International Symposium on Distributed Autonomous Robotic Systems (DARS)*, Springer, 2018 [pdf] [slides] [code]

Wenhao Luo, Sha Yi, Katia Sycara, “Behavior Mixing in Multi-Robot Systems”, *International Conference on Robotics and Automation (ICRA)* [submitted] [pdf] [video]

Work Experience

Google Summer of Code

DEVELOPER

- Worked with Prof. Kei Okada from JSK Robotics Lab of University of Tokyo.
- Integrated FCL with collision detection for manipulator and humanoid in OpenRTM.

Hong Kong, China

May 2017 - Aug. 2017

Kubot Technology

ROBOTICS INTERNSHIP

- Implemented path planning algorithm in VREP simulation environment.

Shenzhen, China

Mar. 2016 - May 2016

Raventech (Acquired by Baidu in 2017)

FRONTEND DEVELOPER INTERNSHIP

- Worked with the Web Development team and developed the official website.
- Implemented svg web animations in RavenTech Labs.

Beijing, China

Jan. 2016 - Mar. 2016

Microsoft

SOFTWARE ENGINEER INTERNSHIP

- Worked in Cloud and Enterprise division, Platform and Tools group.
- Developed distributed web crawling system with Nutch and Scrapy. Developed Android Bluetooth application and conducted backend programming with Python, interacted with MongoDB.

Beijing, China

Jul. 2015 - Dec. 2015

Honors & Awards

Best 50 Final Year Project in Hong Kong (20,000 HKD Award)

2017

HKSAR Government Scholarship (80,000 HKD / year)

2014, 2015, 2016

Best GPA Award (3 of 80)

2014, 2015

Hall Residences with Outstanding Contribution (3 of 250)

2013

First Award in National Olympiad in Mathematics in Provinces (Top 0.1%)

2011

Skills

Programming C/C++, Python, MATLAB, Java, PHP, Javascript, \LaTeX

Others ROS, Arduino, AutoCAD, Solidworks, PCB Fabrication

Languages Chinese/Mandarin (native), English (proficient), Chinese/Cantonese (proficient), Japanese (basic)

Activities

MIT Entrepreneurship and Maker Skills Integrator

2017

CMU Robotics Institute Summer Scholar (Supervisor: Prof. Howie Choset)

2016

Hong Kong X Venture Capital Campus Ambassador

2016

Voluntary Services in Yogyakarta, Indonesia

2014

Publication Secretary & Designer of Chinese Mainland Students' Association, HKPUSU

2013