ZIQIAN QIU

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EDUCATION TIMELINE

Bachelor of Engineering

The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))
Majored in Electrionic Information Engineering   Sept 2014 - May 2019
Minored in Economics
Exchanged to University of Minnesota   Sept 2018 - May 2019

Relevant coursework:
- Calculus, Linear algebra, Optimization, Discrete mathematics
- Programming paradigm, programming methodology, Data Structure and algorithm, Artificial intelligence
- Signal and systems, Communication systems, Digital system design, Electronic circuit design

Bachelor of Science in Computer Science

University of Minnesota, Twin Cities   June 2019 - Expected May 2020

Relevant coursework:
- Probabilities and Statistics
- Microcontroller
- Advanced programming principles, Operating System, Program design and development, Robotics, Graphics

HONORS AND AWARDS

Scholarship   2014 - 2019
Got scholarship offered by CUHK(SZ) for consecutive 5 years

Dean's list Honoree   2019
Honored to be in Dean's list for Fall 2018 and Spring 2019 in University of Minnesota, Twin Cities

RESEARCH INTERESTS

Motion planning, Simultaneous localization and mapping(SLAM), Computer Vision, machine learning, distributed robotics, navigation.

WORK AND RESEARCH EXPERIENCE

Robotics and Intelligence Manufacturing Laboratory - Research Assistant
Research on unmanned boat that recognizes and grasps moving items
Supervisor: Huihuan(Alex) Qian   Oct 2017 - May 2018
- Cooperate to design the project framework and process
- Control robot arm
- Cowork on tracking algorithm
- Contribute to robot kinetics
- Testing

Language: C, C++
IDE: Arduino IDE, QtCreator

Directed Research   Summer 2019
Supervisor: Maria Gini
Research on applying robots on rescue based on RoboCup Rescue Agent Simulation (RCRS) platform.
- Learn Java by myself
- Figure out the overall framework and structure of the simulation
- Improve the performance of the rescue simulation by developing the searching algorithm of the agents
- Testing
- Analyze the results

Language: Java

COMPUTER SKILLS

Programming: Python, C, C++, Java, OCaml, assembly language

Platforms: ROS, Ubuntu, macOS

COMMUNITY SERVICE

Attend voluntary teaching work for students living in remote area in China   Summer 2015
Founder and organizer of the activity "Three line love letters" in CUHK(SZ)   2015
Cultural ambassador in Culture Crop Program in University of Minnesota   2018