

ZIQIAN QIU

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EDUCATION TIMELINE

Bachelor of Engineering

The Chinese University of Hong Kong, Shenzhen (CUHK(SZ))

Majored in Electronic 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

Jan 2018 - May 2018

- Cooperate to design the project framework and process
- Control robot arm using Arduino
- 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

OTHER

Proficient in English, native in Chinese and Cantonese.

Presentation skill

Positive attitude can eager to learn