**Suo Qiu**

No.38 Zheda Rd, Xihu Dist, Hangzhou, Zhejiang, China 310058

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**Education**

**Zhejiang University** *B.E. in Automation* Sept. 2016 – July 2020

***GPA: 3.75/4.00* School Awards:** Academic scholarship(Top 25%)

**Research Experience**

**Construction of SWIM-Bot Low-cost In-pipe Monitoring Robot and Its Experimental Platform** *Dr. Ni Dong*

*Zhejiang University,*Hangzhou, China May 2018 – May 2019

* Used a 3D printer to make the shell of the Swim-bot
* Used the Arduino 101 development board to record acoustic signals which can later be analyzed to identify leaks and other aberrations within the pipelines
* Recorded acceleration information by IMU and realized inertial navigation by Matlab

**Defects Identification on Aluminum Profile Surface** *Prof. Zhao Chunhui*

*Zhejiang University,* Hangzhou, China Sept. 2018 – Dec. 2018

* Preprocessed the original imagines
* Classify the imagines by artificial neural network

**Routes Planning for Mobile Robots (Omnidirectional)** *Prof. XX*

*Zhejiang University,* Hangzhou, China Sept. 2018 – June 2019

* Designed the static RPT algorithm and communication module
* Finished the obstacle avoidance algorithm in the static, dynamic and tracking scenarios
* Completed the final experiment and debugging

**Design and Development of Path and Loading for Vehicles in Logistics** *Prof. XX*

*Zhejiang University,*Hangzhou, China Mar. 2019 – June 2019

* Simulated annealing algorithm to solve vehicle loading problems
* Used the tabu search algorithm to solve the vehicle routing problem

**XXXXXXXXX** *Prof. XX*

*National University of Singapore,*Singapore July 2019 – Aug. 2019

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**Activities & Experiences**

**The Swimming Team of Zhejiang University**

The 17th National University Swimming Championships of 2017 2017

* Awarded the 2nd prize of men’s 4\*200-meter relay race
* Awarded the 7th prize of 200-meter individual medley

**The School Symphony Orchestra of Zhejiang University**  2017

* Participated in Zhejiang Undergraduate Art Festival and won the 1st prize of mixed play

**Great Winter Program**  Feb. 2019

* Completed the program and attained a certification
* Improved English proficiency and learned more about American culture

**Award**

* Third-Class Academic Scholarship (Zhejiang University) 2015

**Skills & Languages**

**Proficient:** C++, Java, Matlab, ROS;

**Languages:** English(Fluent), Chinese(Native)

**Certifications:** Driving License, The Cello A Level(Special Skill Level)

**Standardized Tests:** *TOEFL:xx* ( R L S W ), *GRE:* xx(Verbal 155 + Quantitative xx + AW xx)

**Interests:** Swim, Cycling, Symphony Orchestra