

# YUHENG ZHA

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## EDUCATION

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**Zhejiang University, Hangzhou**

*September 2017 - Present*

Bachelor of Engineering

Majoring in Automation

Control Science and Engineering

Overall GPA: 3.85/4.0, Mentor: Prof. Yu Zhang

## EXPERIENCE

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**Lab Project: UAV Object Detection and Tracking**

*April 2019 - Present*

- Created a UAV simulation environment in Gazebo and use MAVROS node to control the drone. Localize the drone itself by AprilTag and keep it in front of the tag. Track the moving AprilTag with efficient algorithm. Conduct experiments on Intel Aero quadrotor UAV in a real environment and assess the performance of the tracking system.

**Zhongkong Cup Robot Car Competition**

*May 2019 - June 2019*

- Participants have to build a robot car that can automatically move the object to a corresponding place. My contribution was applying a neural network to classify the object that the camera captured and send signals to tell the vehicle where to go. My team ranked 1<sup>st</sup> in the race.

**Motor Control System based on LabVIEW**

*November 2018 - January 2019*

- Control the rotation speed of a motor at a demanding value. The experiment took advantage of LabVIEW to realize basic control algorithms. My work was designing the control procedure and evaluating the stability of the rotation speed.

**Mathematical Modeling: Distribution of Electrical Vehicle Supply Stations**

*April 2019*

- Build a mathematical model to analyse where to set the supply stations for electrical cars to maximize the efficiency. My contribution was collecting data of the populations in different areas in a city and raise a model to evaluate the demand in a specific area. What's more, I finished part of the final report using L<sup>A</sup>T<sub>E</sub>X.

## AWARDS

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<b>2019</b>	Zhejiang University Second Scholarship
<b>2019</b>	First Prize in <i>Zhongkong Cup</i> Robot Competition
<b>2019</b>	Third Prize in College Student Robot Competition of Zhejiang Province
<b>2019</b>	Academic Excellence Student
<b>2018</b>	Zhejiang University Second Scholarship
<b>2018</b>	Academic Excellence Student

## TECHNICAL STRENGTHS

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<b>Programing Languages</b>	C/C++, Python, MATLAB
<b>Robotics</b>	ROS, Gazebo
<b>Tools and Packages</b>	git, MXNET, OpenCV