

Shaofei Qin

UNDERGRADUATE · INFORMATION ENGINEERING

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EDUCATION

- **SJTU (Shanghai Jiao Tong University):** Shanghai, China Sept 2016 - June 2020

SKILL

- **Programming:** Python, C/C++, C#, Java, HTML5
- **Languages:** English (CET-6), Chinese (Native)

RESEARCH EXPERIENCE

- **32rd PRP (Participation in Research Program):**

SELF-PROPELLED CAR BASED ON CLOUD PLATFORM: Sept 2017 - Janu 2018

- Implemented the route detection and optimal route decision function based on OpenCV.
- Implemented the interaction between the cloud platform and the car.

- **RoboMaster:**

EMBEDDED SYSTEM DESIGN: June 2017 - PRESENT

- Designed a user-friendly program framework for the school team.
- Researched for an new algorithm to optimize the stability of the gimbal of the robots.

- **Lab of Information Engineering:**

RESEARCH ON SINGLE-IMAGE SUPER RESOLUTION: Feb 2019 - PRESENT

- Combined the *Fractal mathematics* and SR (*Super-Resolution*) to create a common interface that enables quality improvement for every SR method.
- Make an improvement of 0.1 dB in PSNR and 0.05% in SSIM.
- Prepared to migrate the method on *Zero-Shot Super-Resolution* on account of the special attention mechanism of *Fractal mathematics*.

- **China Undergraduate IoT (Internet of Things) Design Competition:**

DENSE QR CODE DECODER: April 2019 - PRESENT

- Crop a net from *Single-Shot Object Detection Network* which Increases operating speed by hundreds times with little loss of accuracy and enable the program to run in real time on mobile devices.
- Create a memory mechanism to dynamically detect large-scale QR code such as in assembly line.

EXTRACURRICULAR ACTIVITY

- **Project Management Department, SIC(Student Innovation Center) of SJTU: Minister**
 - Organized the RoboMaster School Tournament.
 - Provided technical support for embedded development courses at SIC.

HONORS & AWARDS

ACADEMIC

- 2017, **National Scholarship**, Academic Year 2016-2017.
- 2017, **First Prize in Regional College Students Physics Contest**, Academic Year 2016-2017.
- 2018, **Second Prize in RoboMaster 2018 National Finals**, Academic Year 2017-2018.
- 2018, **Academic Excellence Scholarship (Third-Class)**, Academic Year 2017-2018.

COMMUNITY SERVICE

- 2018, **Excellent Student Cadre**, Academic Year 2017-2018.