

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
 - 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
 - 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
 - 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
 - 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.