

Junquan Qu

Cell: (+86)13840810236 | Email: qujunquan@mail.dlut.edu.cn

Addr: No.2 Linggong Road, Ganjingzi District, Dalian City, Liaoning Province, P.R.C., 116024

EDUCATION BACKGROUND

Faculty of Electronic Information and Electrical Engineering, Dalian University of Technology

Dalian, China

B. E. in Electronic Information Engineering (English Intensive)

Aug. 2016 - Jul. 2020(Expected)

Overall GPA: 3.55/4.0

Hasso Plattner Institute, University of Potsdam

Potsdam, Germany

Summer school (GPA: 3.5)

July 2018

SKILLS

Programming skills: C/C++, MATLAB, OpenCV etc.

PROJECT EXPERIENCE

Dalian University of Technology

Dalian, China

Project: Target Detection Based on Raspberry Pi

Oct. 2017- Mar. 2018

The Undergraduate Innovation and Entrepreneurship Training Program, Advisor: Yanqing Guo

- Utilized OpenCV to identify objects with specific color or shape based on Raspberry PI
- Conducted the design of color recognition part, and achieved the automatic recognition of round object through adjusting the HSV to adapt to different environments.
- Apply the algorithm to picking robot to identify specific fruits for easy picking

Project: The Design and Completion of 3D Printer

Jan. 2017 – Jan. 2018

The 11th iCAN international innovation entrepreneurship competition, Advisor: Assoc. Prof. Feilong Wang

- Built an FDM 3D printer, optimized the mechanical structure, comparing with different structures of 3D printers, and modified Malin firmware to make the printer run more stable and print better.
- Mainly in charge of mechanical structure design and optimization, programming firmware, etc.
- Won various awards in technology innovation competitions.
- Transferred the work to a painting and calligraphy robot project by modifying the motion-control part of Malin's firmware and adding a module to convert Chinese or English characters letters into G code to control the machine movement

Project: Millimeter-wave Directional Transmission and Reception

Sep.2018 – Mar. 2019

Advisor: Assoc. Prof. Ming Li

- Studied on beam forming by fixing the antenna array of millimeter-wave at several angles to transmit and receive, and designed the codebook for the receiver in open-loop (no feedback) and closed-loop situations
- Applied precoding and beam sweeping to obtain characteristics of channels in fixed directions, and compressed sensing to obtain characteristics in other directions

Project: Implementation of Federated Learning based Next-word Prediction of Mobile Keyboard

Nov,2019 - Now

- Adopt RNN to develop language models quick and accurate enough
- Use network pruning and weight sharing to compress the model to meet the limitation of the on-device.

INTERNSHIP

Neusoft Corporation

Dalian, China

Software Development Intern,

Jun. 2019

- Worked on a project about fire alarm system, and developed a website to achieve data visualization
- Mainly responsible for data transmission: sending the sensor data to the host via ZigBee, and transferring the data from the host to upper computer, and then to the website server

SCHOLARSHIP, AWARDS, AND OTHERS

- Scientific and technological innovation award (2017)
- 2nd Prize (National) and 1st Prize (Province), the 11th iCAN international innovation entrepreneurship competition (2017)
- 3rd Prize, the third industry 4.0 international college student's 3D printer design invitational competition (2017)
- Excellent Student Cadre (2018)

Other Activities: Visited alumni enterprises, communicated our entrepreneurial ideas and projects to alumni enterprises.