

CHENGYAO LI

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EDUCATION

Shanghai Jiao Tong University

Sept. 2014 – Jun. 2018(expected)

B.E. in Information Engineering, Zhiyuan Honors Program of Engineering

- Junior GPA: 3.77/4.00 Overall GPA: 3.60/4.00

Cornell University

Jun. 2017 – Jul. 2017

- GPA: 4.00/4.00

RESEARCH EXPERIENCES

Motion Control by Millimeter Wave Radar

Oct. 2017 – Present

Advised by Prof. Dongying Li

Shanghai Key Laboratory of Intelligent Sensing and Recognition

- Developed an algorithm to convert the output signal of millimeter wave radar to a velocity chart
- Applied deep convolutional neural network (DCNN) to recognize human hand gestures using micro-Doppler signatures measured by Doppler radar and achieved the classification accuracy of 85.6%

Trust Degree in Wireless Communication Networks

Jan. 2017 – Jun. 2017

Advised by Prof. Ying Cui

Institute of Wireless Communications, SJTU

- Investigated the concept of trust in communication networks and the potential usage of it such as content quality and the authentication of transmitted files
- Introduced interest similarity into wireless communication networks to make the reputation of a certain node clearer and decrease the fake download in the network

Solar Airship

Jun. 2017 – Jul. 2017

Advised by Prof. Ross A. Knepper

C.S. Department, Cornell University

- Investigated the common control methods for an unmanned and self-controlled robotic blimp
- Chose px4 flight-control system and study the codes realizing PID control algorithms to help understand and adapt it to control the blimp
- Found and rewrote the key mixer file to map control inputs to the blimp's actuator outputs

Remote Control System of a Master-Slave Communication System

Mar. 2017 – Jun. 2017

Advised by Prof. Yan Yuan

Electronic Engineering Department, SJTU

- Designed a master-slave communication protocol to encode data and commands to measure and monitor three sub-systems as water-heating, thickness-measuring and motor control
- Developed a graphic user interface (GUI) to control the system remotely through both wired communication (serial port communication bus) and wireless communication (WIFI)

INTERNSHIP

Baian Tech

Oct. 2017 – Present

Front-End Development Engineer Intern

Shanghai, China

- Redeveloped *Phabricator*, the open source code review tool of Facebook based on PHP and Ruby on Rails, to establish an online coding test questions distribution system

HONORS & AWARDS

Academic Excellence Scholarship of Shanghai Jiao Tong University

2015, 2016, 2017

Zhiyuan Honor Scholarship

2015, 2016

SKILLS & EXTRA-CURRICULAR ACTIVITIES

Programming Languages

C, C++, C#, Java, Python, JavaScript, MATLAB

University Choir

Serving as Bass in Shanghai Jiao Tong University Choir and won a gold medal in 'Sing'n'Joy Princeton 2017' International Choir Competition