Hejia **Zhang**

3335 S Figueroa St. - 16 Los Angeles, CA 90007

(+86) 188-6810-2257 | hejiazha@usc.edu | hjzh4

Education

USC(University of Southern California)

Los Angeles, USA

M.S. in Computer Science

Jan. 2018 - PRESENT

- Selected Courseworks: Robotics

ZJU(Zhejiang University)

Hangzhou, Zhejiang, China

B.S. in Bioengineering

Sept. 2013 - July. 2017

- Second-Class Scholarship for Outstanding Merits, Zhejiang University 2013-2014
- Third-Class Scholarship for Outstanding Merits, Zhejiang University 2015-2016

Skills

Programming Languages	C/C++, Python, Matlab, Java
Programming Framework/Packages	Poco, OpenCV, Qt, scikit-learn
Machine Learning Framework	TensorFlow
Robotics Development Framework	Robot Operating System (ROS)

Experience

Seeta Technology Co., Ltd

Peking, China

Software Engineer & C++ Server Development Engineer

June. 2017 - Dec. 2017

- Implemented a face access control system based on boost.asio, Poco Library and Face Recognition technology.
- Improved and matained the functionality, stability and availabity of the platform server application which provides the basic face detection&recognition and feature management api and is used in almost all projects in company.

2016 ASABE Robotics Student Design Competition

Orlando, USA

Designer & Programmer

July. 2016

- Responsible for the design and programming of a fully automated robotic system that can simulate the transfer of fruits from the harvester to the processing plant.
- Developed the control system on Arduino Mega 2560.
- Realized the vision system in C++ with OpenCV on Raspberry 3 Model B.

the First National Intelligent Agricultural Equipment Innovation Competition for College Students

Jiangsu, China

Designer & Programmer

Dec. 2015

- Responsible for the design and programming of a fully automated robotic system that can simulate the tractor's traversing in field.
- Won the 2nd prize in the competition.

Undergraduate Research, Institute of Biosystem Automation and Information Technology(Prof. Yong He)

Zhejiang University, Hangzhou, China

Researcher for <Desktop Application for Processing Plant's Point Cloud Data>

Feb. 2016- June. 2017

- Responsible for the Graphical User Interface and several function modules of the application like leaf area measurement, plant's height measurement.
- Developed the Graphical User Interface in C++ with Qt and the processing function modules with PCL.
- Provided the application to producers and scientists for processing the plant's point cloud data with ease and speed.

Undergraduate Research Internship, Bhalerao Lab(Prof. Kaustubh Bhalerao)

University of Illinois at Urbana-Champaign, USA

Researcher for <Modeling Microbial Diversity of Anaerobic Digestion through STELLA>

July. 2015-Aug. 2015

- Responsible for a methodology to account for microbial diversity in complex but structured models and the resulting model remains powerful in representing macroscopic experimental data, but is moreover able to get insight in underlying microscopy.
- Adaptation of microorganisms to perturbations and inhibitory substances, as suggested in this model, can significantly improve anaerobic digestion process and thereby wastewater treatment efficiency.
- Constructed the visual mathematical model with tool of STELLA.

Conferences

2016 ASABE Annual International Meeting *Orlando, USA*

Student Member *July. 2016*

Referees

Dr. Hui Fang **Associative Professor of Zhejiang University** China
Dr. Huanyu Jiang **Professor of Zhejiang University** China
Dr. John Zhang **President of Systems Analytics Inc.,** USA