

# Zheng Ke

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## EDUCATION

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### University of Michigan

Sep 2018 - Apr 2020

Bachelor of Science in Engineering in Computer Engineering (Dual Degree)

Ann Arbor

Minor in Mathematics Science (School of Literature, Science and Arts)

- GPA: 4.0 / 4.0
- Honors/Awards: Dean's List
- Relevant Coursework: Data Structures and Algorithms, Logic Design, Signals and Systems, Probability Theories, Modeling and Dynamics, Computer Organizations

### Shanghai Jiaotong University

Sep 2016 - Aug 2020

Bachelor of Science in Engineering in Mechanical Engineering (Dual Degree)

Shanghai

Minor in Computer Science

- Honors/Awards: Dean's List, Siyuan Prize for Research Projects
- Relevant Coursework: Design and Manufacturing, Differential Equations and Dynamics and Mechanics

## PROJECT EXPERIENCE

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### Vehicle with Smart Wheels

May 2018 - Aug 2018

Shanghai Jiaotong University

The vehicle can detect the topography then transform the shape of the wheels to fit the terrain, therefore the vehicle can work under various circumstances.

- Built the Solidworks model of the wheels and the 3D-print model
- Made tests on the sand fields
- Assisted of writing programs to detect the topography

### Soft Robot Arm

Mar 2018 - May 2018

Shanghai Jiaotong University

The soft robot arm can carry objects with higher flexibility, adaptation to various working environments, lower impact on surfaces and less weight and higher load capability.

- Simulated the motion of the robot arm using MATLAB and gave ideas for improvements
- Built the Solidworks model of the robot arm

### Smart Trash Bin

May 2017 - Aug 2017

Shanghai Jiaotong University

The smart bin can pack the trash automatically and went to the user when it was call by the remote controller.

- Developed the automatic packing function
- Helped test the route-searching algorithm

## PROFESSIONAL EXPERIENCE

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### Bosch China

Jan 2018 - Mar 2019

Data Engineer Assistant

Shanghai

- Analyzed the users' preferences through the Bosch Staff Training system
- Assisted of constructing the "Bosch WeLearn--Intelligent Training Platform for staff"

## LEADERSHIP EXPERIENCE

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### UM-SJTU Joint Institute Career Center

Nov 2016 - Aug 2018

Vice Director

Shanghai Jiaotong University

- Composed the JI Career Guide
- Organized the interviews of the alumni

## SKILLS LIST

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Computer: C++/C, Python, MATLAB, Java, Verilog, UnderGraphics-NX and Solidworks

Language: Chinese, English, German and Spanish