

## **Educational Background**

**Harbin Institute of Technology**  
*B.E. in Mechatronics Engineering*

**Harbin, CHINA**  
*Sep/2016 - present*

▪ **Standard GPA:** 3.73/4; **Major GPA:** 3.84/4; **Average Score:** 95.06/100; **Ranking:** 6/369

## **Skills & Interests**

- **Software:** Inventor; Solidworks; CAD; MATLAB (including Simulink, App Designer, MUPAD); Keil.
- **Hardware:** Mechatronics System Design; Machine Design; Soldering Circuit Board.
- **Interests:** Philosophy; Psychology; Writing Chinese Traditional Poetry.

## **Professional Experience**

### **Delivery Service Robot 3D Innovative Design**

**Introduction:** The aim of the project is giving a conceptual robot design for delivering food in the restaurant. It was divided into 3 modules, moving module, carrying module and identity module.

**Awards:** First Prize of University's Innovation Project (as captain);  
National 3D Innovative Design Competition "Long Ding" Prize (as captain);

### **Garbage Clean Boat based on infrared remote controlling**

**Introduction:** It was designed for cleaning the garbage on the surface of the water in the park and the scenic spot. We made it as a catamaran and well designed the outline of the ship to make the garbage can get into the gap between the catamaran's two part smoothly and set a box in the gap. It was basically divided into 3 parts, control system, well designed boat's body based on hydrodynamics and gathering module. Eventually, we achieved the infrared remote controlling for two Stepper motors and two DC motor to make the boat work.

**Awards:** Second Prize of University's Innovation Project (as captain);

### **Research on Ultrasonic Deicing Machine for Sidewalk**

**Introduction:** The aim of this project is designing a kind of machine to help people clean the ice on the sidewalk. There are two main problems, controlled in its mass and working impact for protect the tiles and working below zero 30 degrees Celsius. We made it like a handcart which was basically divided into 3 parts, including one ultrasonic vibration module to weaken the ice, roller brush modules to clean the snow and the ice weakened by ultrasonic and some mechanical structure to help people to push it to move and turn around. The final goal is passing the real work experiment and can clean up the ice and snow at a speed of 50cm per second.

**Awards:** National Innovation Project;

### **Research on obstacle avoidance of carbon free car**

**Introduction:** This project is creating a 3 wheeled carbon free car which has to use  $400 \pm 2$ mm gravitational potential energy of a 1kg hammer to move forward and avoid obstacle set per meter without any electrical things. We chose to move sinusoidally and decided to use the cam mechanism to control the direction. We calculated the moving trail's function for setting the wheel size and the angle of rotation. The final goal is at least moving 6 meters and bypassing 6 obstacles.

**Awards:** National Collegiate engineering training comprehensive ability competition;

## Honors & Awards

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### National Scholarship (2 times)

Oct/2018 and Oct/2017

**Introduction:** This is the biggest scholarship given to the top 1% students in comprehensive measure

### Merit Student of the Heilongjiang Province

May/2018

**Introduction:** This is the biggest honor given to the students in Heilongjiang province (Top students selected from all students in Heilongjiang province).

### ICISTS - KAIST Gold Prize

Aug/2018

**Introduction:** ICISTS - KAIST (held in KAIST, South Korea) is a global conference with 300 participants from 20 countries and 60 universities networking in the fields of science, arts, and humanities five-day festival with world-leading experts and college students. The Gold Prize is given to only one team for its prominent behavior.

### Overseas International Conference Travel Grant (2 times)

Aug/2018 and Aug/2017

**Introduction:** This is the scholarship given to the top students in expatriate representative selection.

### “Remin” Scholarship (4 times)

Every Semester

**Introduction:** This is the scholarship given to the top 2% students in GPA measure.

### Technology Innovation Scholarship (4 times)

Every Project

**Introduction:** This is the scholarship given to the University’s Innovation Project.

## Students Activities

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### HIT International Communication Association (HICA)

Oct/2016 – Present

**Introduction:** HICA is an official student organization in Harbin Institute of Technology, authorized for the management of international communications of students. With over 200 active members and an annual budget of more than \$150,000, it is also the largest student organization inside HIT.

**Position:** Vice President, Director of Lecture Department

Jun/2018 – Present

Deputy Director of Lecture Department

Jun/2017 – Jun/2018

Member of Lecture Department

Oct/2016 – Jun/2017

### **Main Contribution:**

- Be in charge of 2016-2017 and 2017-2018 HIT BP debate competition. Successfully attracte nearly 100 participants including undergraduate and graduate students for each year. Got the qualifications as our university’s representative team to participate in FLTRP Open (the biggest Open Tournaments in China) in 2017-2018.
- Founded the HIT English Debate team with HIT foreign language college. Have gotten HIT official recognition and will represent HIT to participate in nearly all kinds of English debate competition.
- Be in charge of “Hello, Harbin”2017 ASRTU Winter Youth Festival’s reception dinner, 3 hours long reception dinner involved more than 100 students coming from those 32 Russian universities.
- Be in charge of 2018 ASRTU Sino-Russian Micro/Nanosat Student camp’s Sino-Russian astronaut dialogue lecture delivered by Russian astronaut Pavel Vinogradov and Chinese astronaut Liu Boming with nearly 50 reporters and 150 Sino-Russian students involved.
- Be in charge of 2018 HIT International Week, a one-week festival with 10 lectures, 3 big activities and 180 meters long display board surrounding two campus. Those lectures, including introduction of foreign university enrollment, foreign language learning and learning experience of outstanding overseas students, attracted more than 1000 audiences. The whole festival attracted more than 3000 participants.