**Mr** **Xiaotong** **Li**

**D. O.B.:** May 22, 2001 | **Mobile:** 86-18136601928 | **E-mail:**1243071552lxt@gmail.com

* **EDUCATION BACKGROUND**

**Nanjing University of Aeronautics and Astronautics**  09/2019-06/2023

Major:Aircraft Design and Engineering (Excellence Program)

Degree:Bachelor of Engineering

GPA: 89/ 100

Graduation Dissertation: Gradient Enhanced Neural Networks for Optimization of Airfoils

**Technology University of Delft**  09/2023-07/2025

Major: Robotics

Degree:Master of Science

GPA: 8.63/ 10

* **Public Exams**

**IELTS**:7.5, **GRE**: 328+3.5

* **INTERNSHIP**

**Beijing, BJROBOT Technology Co. Ltd.**  04/2023-05/2023

Position: ROS Assistant Engineer

Working Contents: Develop TurtleBot3 to do mulitiple missions(reduplicate the function of Autorace)

**Shanghai, Bayer Crop Science Co. Ltd.**

Position: ROS Engineer

Working Contents: Use Isaac Sim to build a vivid to life simulation platform of automated guided vehicles in a setting of intelligent agriculture.

* **INTERNATIONAL EXPERIENCE**

**KAIST,** **Human-Robot** **Interaction** **Research** **Center(Summer** **Camp)** 07/2022

Focus: Soft Pneumatic Actuators

Learn how to design a soft pneumatic gripper and its control method.

* **RESEARCH** **EXPERIENCES** 04/2022-06/2022 **Participant,** **MISSION** **9** **of** **the** **International** **Aerial** **Robotics** **Competition** **(IARC)**
* Responsible for flight control test and its optimization.

04/2022 **Participant,** **RoboCup** **China** **Open**

* Responsible for establishing point clouds for the depth information read by the depth camera and performing plane extraction and calculation of characteristic shapes
* Won the second prize

03/2022-03/2023 **Leader,** **Gradient** **Enhanced** **Neural** **Networks** **for** **Optimization** **of** **Mars** **Low** **Reynold Number Airfoil**

* Calculated aerodynamic parameters of airfoils at different angles of attack, Ma numbers and Re numbers
* Constructed mSANN with TensorFlow using aerodynamic parameters and corresponding gradient information as training samples
* Optimized mars low Reynolds number airfoil design by using mSANN as a surrogate model coupled with gradient optimization software package SNOPT

08/2021 **Participant,** **RoboMaster2021 Super** **Match** **Play** **Competition** **(Central** **Division)**

* Responsible for the function realization of radar station, that is, using yolo model to identify enemy robots and mark them on our map
* Won the second prize

04/2021 **Leader,** **The** **6th** **Jiangsu** **Provincial** **Engineering** **Training** **Comprehensive** **Ability** **Competition for College Students**

* Drew the aircraft model and calculated the aerodynamic characteristics with fluent, and produced simulation animations with 3DMax
* Won the second prize

03/2021-03/2022 **Leader,** **Dynamic** **Formation** **Transformation** **and** **Obstacle** **Avoidance** **of** **Unmanned** **Vehicles**

* Realized autonomous obstacle avoidance based on slam and multi-vehicle communication through wireless networking, mainly implemented the control of unmanned vehicle through ros system
* Realized mapping and navigation functions with ros, and and conducted simulation tests with gazebo
* Nominated to the 15th National College Student Innovation and Entrepreneurship Annual Conference

03/2021-03/2022 **Participant,** **Research** **on** **Positioning** **and** **Identification** **Methods** **of** **Logistics** **Sorting** **Robot**

* Implemented the autonomous object sorting of a logistics robot based on slam, machine vision and neural network
* In charge of slam mapping, production of training sets and training the neural network to recognize the specified objects

11/2020 **Participant,** **RoboCup** **China** **Open**

* Enabled the robot to identify the hole positions on a transparent acrylic plate with the visual recognition system (openmv)
* Won the third prize

08/2020 **Participant,** **RoboMaster2020** **Super** **Match** **Play** **Competition** **(Online)**

* Participated in the design and drawing of the mechanical structure of the robot,and learned the overall process of making the competition robots
* Won the second prize

03/2020-04/2021 **Participant,** **Small** **Fixed-wing** **Attack** **UAV** **System**

* Responsible for processing the visual identity system

**PUBLICATIONS** **&** **PATENTS**

* HongYu Chen, Xiaotong Li, Haosheng Li, Bohao Qian, Xiangxiang Li,

Computer Software Copyright “Unmanned Vehicle Formation Navigation and Formation Switching System 1.0.0”

**EXTRACURRICULA** **ACTIVITIES** 10/2021-

10/2019-06/2020 **Member, New Media Department, Student Union, Nanjing University of Aeronautics and Astronautics**

* Produced the official push of the wechat public account, took photos and edited videos of large-scale activities

**AWARDS** **&** **HONORS**

l 2022 First Prize of Academic Scholarship, Nanjing University of Aeronautics and Astronautics

l 2021 First Prize of Academic Scholarship, Nanjing University of Aeronautics and Astronautics

l 2020 First Prize of Academic Scholarship, Nanjing University of Aeronautics and Astronautics

l 2021 Second Prize of Outstanding Student Scholarship, Nanjing University of Aeronautics and Astronautics

l 2020 Second Prize of Outstanding Student Scholarship, Nanjing University of Aeronautics and Astronautics

l 2021 Merit Student, Nanjing University of Aeronautics and Astronautics

l 2020 Merit Student, Nanjing University of Aeronautics and Astronautics