**Mr. Qizhi Guo**

DOB: 09/04/1999

Tel: (+852) 60618935

Email: guoqz@connect.hku.hk

**Education Background**

**China Agricultural University 09/2017-06/2021**

* Major: Mechatronics Engineering
* College: College of Engineering
* Degree: Bachelor of Engineering
* GPA: 78.86%

**Academic Experiences**

**Design of GPS-Based Automatic Field Navigation System for Lettuce 11/2020-06/2021**

* The STM32 monolithic motor design is used as the basis for the entire system design and control core
* Build a physical model of the car and use the GPS module to generate navigation lines to guide the car
* Control of the trolley by means of differential speed
* Optimization of trolley travel using PID controllers
* The dissertation for Bachelor's degree

**Design of Reducer in the Transmission Device of Chicken House Chain Plate Feeding Machine 08/2020**

* Designed shafting and box structure, and drew assembly drawing
* Wrote a report about reducer design course design

**Course Design of Electronic Code Lock**  **07/2020**

* Designed delay program, changed the password subroutine, wrote the program about digital tube display subroutine
* Wrote the electronic password lock course design report

**Interdisciplinary Contest in Modeling (Big Data)**  **02/2020**

**Topic:** The Maximum Harmless Treatment of Plastic Waste

* Served as the team leader and in charge of the control of the progress
* Established the environmental safety assessment system of plastic pollution based on discrete regression model; adopted AHP to comprehensively evaluate and rank the classic countries in the world; utilized the gray model to predict the future development trend of disposable plastic products
* Recommended that global integration and regional economic coexistence system can be implemented to establish equity management mechanism on the basis of the minimum amount of disposable plastic products available worldside is 1.6 million tons

**Wireless Download System of MCU Program 05/2019-04/2020**

* Established AT module communication and set Bluetooth module parameters
* Wrote a *URP Project Conclusion Paper of College of Engineering*, as the first author in March 2020

**Carbon-free Car Competition, College of Engineering 03/2019-05/2019**

* Formulated the part drawing and manufactured the parts
* Assembled the car

**Internship Experiences**

**Erqi Shiyan Dongxin Training Center** **08/2020-09/2020**

* Cloud visited the workshop, and drew the parts drawing

**Airbus (Tianjin) Final Assembly Company Limited 08/2018-08/2018**

* Visited the workshop and learnt their production process

**Extracurricular Activities**

**Class Monitor 09/2017-07/2018**

* Communicated with teachers, conveyed information to students, organized various activities to enhance the class cohesion

**Propaganda Department, Student Union 09/2017-07/2018**

* Produced promotional videos and the introduction videos of performers

**Skills & Hobbies**

* Skilled in MATLAB, Simulink, AutoCAD, SolidWorks
* Have a basic knowledge of C Programming Language, Edgecam, RoboDK, Proteus, myDAQ etc.
* Enjoyed swimming and playing the basketball, etc.