1. Project name.

Intelligent Courier Drone

1. Description of the project: goal, main functions of the system/device and benefits. Indicate what problem your project solves and describe what target user group it is intended for.

Goal:

Deliver medical supplies or another to remote areas.

Main functions:

Designing a courier drone to deliver medical supplies or another to remote areas. Participants should develop a drone capable of automatically delivering medical supplies to places where it is difficult or dangerous to get by transport, ensuring fast and efficient delivery of necessary medicines.

The system:

Courier drone system.

The device:

Clover drone, 3D printer and loader, computer and tools.

Benefits:

Avoid dangers, save time and labor, and deal with emergent situation.

3.Team Member Roles

|  |  |  |
| --- | --- | --- |
| Full name of the Participant | Role | Responsibilities |
| Liu Wei | Drone pilot/Assembler | Assemble, debug and operate a drone |
| Zhao Yanlin | Designer/Assembler | Design and assemble a drone |
| Gao Chenyu | Designer/Programmer | Design a drone and program |
| Gao Chengyun | Team leader/Programmer | Coordinate tasks of all team members and program |
| Shi Jipeng | Translator | Translate all the documents |

4.Task table (an Excel table that should also be linked to GitHub )

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description of the task | Responsible | Due date | Status | Indicate what technologies/tools/software were used to solve the problem |
| Planning | Guidance | 9/22/2024 | Finished | Office, Github |
| Selecting devices | Preparation for the competition | 9/22/2024 | Finished | Drone |
| Assembling drone | Preparation for delivery | 9/23/2024 | Undone | Drone, Solidworks, assembling tools, 3D printer, and computer |
| Designing, printing and assembling load |
| Debugging the drone and load | Ensurance the security and accuracy | 9/24/2024 | Undone | Drone, Polygon X, QGround Control, and computer |
| Programming | Accomplish autonomous flight and Route planning | 9/24/2024 | Undone | Drone, Polygon X, QGround Control, VMware Workstation, and computer |
| Testing automatically flight and delivery | Complete Hackthon | 9/25/2024 | Undone | Drone, Polygon X, QGround Control, VMware Workstation, and computer |