## Takeoff and Land

The minidrone must have Vertical takeoff and landing (VTOL) capabilities. This will enable the minidrone to have

* efficient maneuverability
* ability to hover steadily
* minimal space needed to launch

## Perform Controlled Flight

The minidrone should have a 6 DOF movement capability during flight to achieve its desired applications.

### Fly range

To avoid expected obstacles in its operation area, the drone must be able to achieve and maintain a constant altitude of 2 meters.

### Altitude

The flight is managed from a control system, and it can operate autonomously or based on guidance from central location

### Flight Control

The flight is managed from a control system, and it can operate autonomously or based on guidance from central location

## Communicate with Ground base

The minidrone should be able to receive commands and send information to a ground base that controls its operation.

### Camera

The minidrone must be able to snap a picture of the package.

## Carry a load

The minidrone should be able to carry a load

### Max size

Max size of 5x5x5 cm

### Max weight

Max weight of 500 grams

### Pick up controller

In order to take the packages the drone should have a pick up system for delivering the package