DRONE DELIVERY WITH GPS TRACKER

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ABSTRACT

Drone Delivery system will track live location of consumer and hence provide assured delivery of package to the correct place and correct person. GPS Drone delivery system will locate the consumer through GPS and detect the live location and deliver the package accurately and within a stipulated time as per the date of delivery. GPS will be inbuilt in the drone and live tracking device will detect the location of user's device which will currently be handled by the customer using OTP provided during generation of package to avoid fraud. There will be a main warehouse and some sub warehouses, the drone will pick up the package from the nearest warehouse of the delivery location. It will behave like any home delivery app where both the customer and the dispatcher will be able to trace the live location of the package.

KEYWORDS

—component, formatting, style, styling, insert (key words)

1. INTRODUCTION

Drone Delivery system will track live location of consumer and hence provide assured delivery of package to the correct place and correct person. GPS Drone delivery system will locate the consumer through GPS and detect the live location and deliver the package accurately and within a stipulated time as per the date of delivery. GPS will be inbuilt in the drone and live tracking device will detect the location of user's device which will currently be handled by the customer using OTP provided during generation of package to avoid fraud. There will be a main warehouse and some sub-warehouses, the drone will pick up the package from the nearest warehouse of the delivery location. It will behave like any home delivery app where both the customer and the dispatcher will be able to trace the live location of the package. [1-32]

2. SEARCH ENGINE EVALUATION

Drone Delivery system will track live location of consumer and hence provide assured delivery of package to the correct place and correct person. GPS Drone delivery system will locate the consumer through GPS and detect the live location and deliver the package accurately and within a stipulated time as per the date of delivery. GPS will be inbuilt in the drone and live tracking device will detect the location of user's device which will currently be handled by the customer using OTP provided during generation of package to avoid fraud. There will be a main warehouse and some sub warehouses, the drone will pick up the package from the nearest warehouse of the delivery location. It will behave like any home delivery app where both the customer and the dispatcher will be able to trace the live location of the package.

Bibhu Dash et al: ICFCSAI-2025
pp. 125-129, 2026. IJCI – 2026 DOI:10.5121/ijci.2026.150113

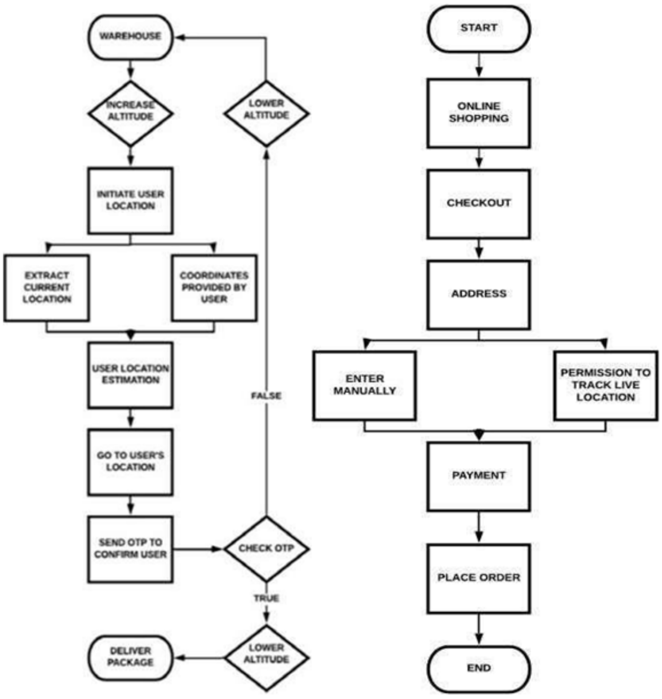

Fig-01 - Proposed System

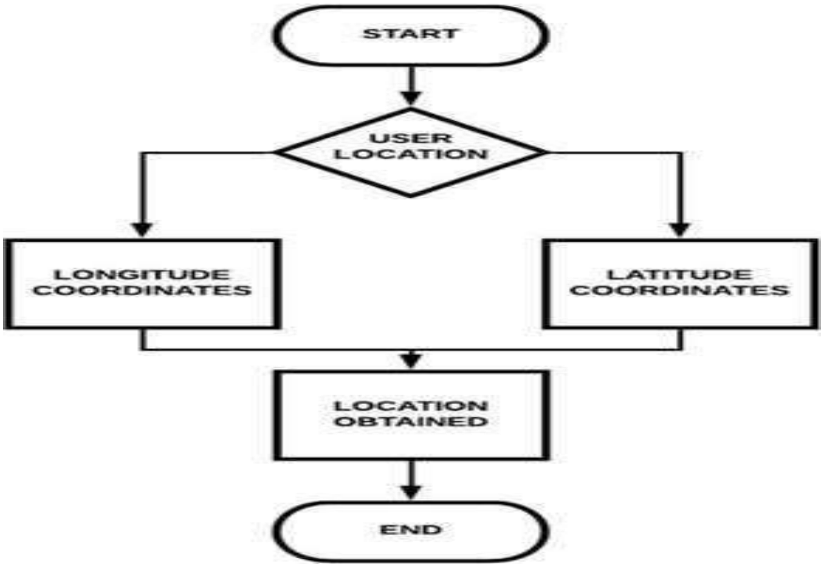

Fig.-02. Working

3. CODES

```
#include <TinyGPS++.h>
#include <SoftwareSerial.h>
static const  int RXPin = 4, TXPin = 3;
static const uint32_t GPSBaud = 9600;
// The  TinyGPS++ object
TinyGPSPlus gps;
// The serial connection to the GPS  device
SoftwareSerial ss(RXPin, TXPin);
void setup(){
 Serial.begin(9600);
  ss.begin(GPSBaud);
}

void loop(){
 // This sketch displays information  every time a
 while (ss.available() > 0){
   gps.encode(ss.read());
  if (gps.location.isUpdated()){
   Serial.print("Latitude=  ");
   Serial.print(gps.location.lat(), 6);
   Serial.print(" Longitude=  ");
   Serial.println(gps.location.lng(), 6);
  }
```

4. ADVANTAGE

Efficiency of proposed method over other methods of package delivery:

- It is fast and reliable
- It has the features on in hand delivery
- It will avoid thefts and Hassel faced by customer
- Customer will not have to wait in a fixed
- location to collect the parcel
- It is robust and spontaneous
- Very efficient over short distances
- Can be controlled with gestures if modified.
- Self-updating of user location.

5. CONCLUSIONS

The aspect of this journal is the future of technology. The manual delivery will not be able to satisfy the demands of human race in the future. Drones will become a necessity and will be of immense use in delivery of packages and couriers to the respective customers. In future, people will become so engrossed in their own work that they would not have time for collecting parcels and packages separately. Thus, these drones will ensure the correct delivery of their demands in their current positions that is wherever they are. For this system to work properly image processing also has to be implemented in order to remove obstacles in the delivery path. If the dangers or obstacles are intermittent and sudden due to a storm or a bad weather which is harmful, the drones will eliminate it from the path using laser. For a more advanced and efficient system of work and delivery the drone delivery system in the future will be AI controlled that is self-processing and implementing. They will be self-processing the path if there are any living object as an obstacle through algorithms.

6. ACKNOWLEDGEMENTS

The authors sincerely thank the Department of Electrical Engineering, Institute of Engineering and Technology, Agra, for providing the necessary support and facilities for this work. We are especially grateful to Dr. Mayank Pratap Singh, Head of the Department, for his guidance and encouragement during the project “Drone Delivery with GPS Tracker.”

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