CLAIMS –

What is claimed is:

1. A drone dock and delivery box for accepting goods/parcels as drone deliveries to a person requesting the goods/parcels, the drone dock with a multiple set of hot and cold sections comprising:

(a) a structure for providing a hot and cold section with an interior to maintain and preserve each of the goods/parcels at a predetermined temperature and the structure having a motorized sliding door;

(b) a means for locating the drone dock with GPS and then for permitting a drone to accurately approach and to dock with a station;

(c) a means of engaging the drone dock such that a stable connection/attachment can be made;

(d) a means of transferring each of the goods/parcels from the drone to the interior of the structure of the drone dock;

(e) a means of preserving the predetermined temperature with a powered hot/cold plate and temperature assist and control unit;

(f) a means for securely storing the goods/parcels once transferred to the interior of the structure of the drone dock;

(g) a means of disengaging/releasing the drone from the drone dock;

(h) a means of encrypted communication between the drone and the drone dock which has a specific GPS address and communication to the person requesting the delivery of the goods/parcels;

(i) a functional component incorporated within a box to prevent damage during the transfer and subsequent storage;

wherein the goods/parcel that is delivered to the person requesting goods/parcels can be tracked and delivered and a set of demographics

regarding the tracking and delivery can provide data for a marketing study.

2. The drone dock and delivery box for accepting goods/parcels in claim 1 wherein the means for securely storing the goods/parcels once transferred to the interior of the structure of the drone dock is selected from the group consisting of a keypad for onsite access to the drone dock, a facial recognition camera, and a fingerprint activated release system.

3. The drone dock and delivery box for accepting goods/parcels in claim 1 wherein means for locating the drone dock with GPS and then for permitting the drone to accurately approach and to dock with the station is selected from a group consisting of cold beam technology, laser beam, radar, lidar, Quick Response (QR) code tags, and radio frequency identification (RFID).

4. The drone dock and delivery box for accepting goods/parcels in claim 1 wherein the means of encrypted communication between the drone and the drone dock is selected from the group consisting of Wi-Fi, Bluetooth, hot spot, and satellite systems and wherein the drone dock has encrypted communication and tracking of a driverless vehicles, a robots, and vendors that interact with the drone dock and wherein the drone dock can track and interface with an aerial drone, a commercial carrier, a driverless car (UAV) and a robot.

5. The drone dock and delivery box for accepting goods/parcels in claim 1 wherein the functional component to prevent damage and deterioration during the transfer and or subsequent storage is selected from the group consisting of a soft receiving pad, a curved side, a sealed door, a temperature-controlled interior, and a heated sliding door.

6. The drone dock and delivery box for accepting goods/parcels in claim 1 further comprising one or more optional features, wherein

the optional features are selected from the group consisting of a charging station for drone batteries, an exchange mechanism for a drone battery, a charging station for a cellular telephone, a charging station for an electric scooter, a charging station for an electric bike and a charging station for an electric vehicle.

7. The drone dock and delivery box for accepting goods/parcels in claim 6 wherein the optional feature is a collector to identify explosive material, biohazards, illegal drugs, and anthrax.

8. The drone dock and delivery box for accepting goods/parcels in claim 6 wherein the optional feature is an ultraviolet scan system to eradicate disease, virus and harmful materials.

9. The drone dock and delivery box for accepting goods/parcels in claim 6 wherein the optional feature is an ozone applicator to eradicate disease, virus and harmful materials.

10. The drone dock and delivery box for accepting goods/parcels in claim 1 further comprising one or more identification features, wherein the one or more identification features are a barcode reader and a Quick Response (QR) reader.

11. The drone dock and delivery box for accepting goods/parcels in claim 10 wherein the one or more identification features include a weight and dimension sensor, barcode reader, and QR reader.

12. The drone dock and delivery box for accepting goods/parcels in claim 10 wherein the one or more identification features is a tattoo printer for reverse logistics for return of parcels.

13. The drone dock and delivery box for accepting goods/parcels in claim 1 further comprising one or more additional features on the drone dock, wherein the one or more additional features is a weather monitoring system.

14. The drone dock and delivery box for accepting goods/parcels in claim 13 wherein the one or more additional features on the drone dock is a tag and track component to track vehicles and packages.

15. The drone dock and delivery box for accepting goods/parcels in claim 13 wherein the one or more additional features on the drone dock is a camera with facial recognition software to track humans and pets.

16. The drone dock and delivery box for accepting goods/parcels in claim 13 wherein the one or more additional features on the drone dock is an encoded chip track to track a lost drone dock receptacle.

17. The drone dock and delivery box for accepting goods/parcels in claim 1 further comprising one or more local features, wherein the local feature is a set of two-way speakers with a dog whistle and wherein the speakers can emit loud sirens to alert emergency vehicles and first responders.

18. The drone dock and delivery box for accepting goods/parcels in claim 17 wherein the one or more local features is a set of LED lights that are colored and can strobe flash and wherein the LED lights can alert emergency vehicles and first responders.

19. The drone dock and delivery box for accepting goods/parcels in claim 17 wherein the one or more local features is a flood light.

20. A mobile drone dock and delivery box for accepting goods/parcels of a person requesting the goods/parcels as drone deliveries, the mobile drone dock with a multiple set of hot and cold sections comprising:

(a) a structure for providing a hot and cold section with an interior to maintain and preserve each of the goods/parcels at a predetermined temperature;

(b) a means for locating the drone dock with GPS and then for permitting a drone to accurately approach and to dock with a station;

(c) a means of engaging the drone dock such that a stable connection/attachment can be made;

(d) a means of transferring each of the goods/parcels from the drone to the interior of the structure of the drone dock;
(e) a means of preserving the predetermined temperature with a powered hot/cold plate and temperature assist and control unit;
(f) a means for securely storing the goods/parcels once transferred to the interior of the structure of the drone dock;
(g) a means of disengaging/releasing the drone from the drone dock;
(h) a means of encrypted communication between the drone and the drone dock which has a method to specify a GPS address and communication to the person requesting the delivery of the goods/parcels;
(i) a functional component incorporated within a box to prevent damage and deterioration during the transfer and subsequent storage;
(j) a transport unit to carry and transport the drone dock;

wherein the goods/parcel that is delivered to the person requesting goods/parcels can be tracked and delivered and a set of demographics regarding the tracking and delivery can provide data for a marketing study.

21. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 wherein the transport unit to carry and transport the drone dock is selected from a group consisting of a pick-up truck, a trailer, a robot, and a mobile platform.

22. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 wherein the means for securely storing the goods/parcels once transferred to the interior of the structure of the drone dock is selected from the group consisting of a keypad for onsite access to the drone dock, a facial recognition camera, and a fingerprint activated release system.

23. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 wherein the means for locating the drone

dock with GPS and then for permitting the drone to accurately approach and to dock with the station is selected from a group consisting of cold beam technology, laser beam, radar, lidar, Quick Response (QR) code tags, and radio frequency identification (RFID).

24. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 wherein the means of encrypted communication between the drone and the drone dock is selected from the group consisting of Wi-Fi, Bluetooth, hot spot, and satellite systems and wherein the drone dock has encrypted communication and tracking of a driverless vehicles, a robots, and vendors that interact with the drone dock and wherein the drone dock can track and interface with an aerial drone, a commercial carrier, a driverless car (UAV) and a robot.

25. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 wherein the functional component to prevent damage and deterioration during the transfer and or subsequent storage is selected from the group consisting of a soft receiving pad, a curved side, a sealed door, a temperature-controlled interior, and a heated sliding door.

26. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 further comprising one or more optional features, wherein the optional features are selected from the group consisting of a charging station for drone batteries, an exchange mechanism for a drone battery, a charging station for a cellular telephone, a charging station for an electric scooter, a charging station for an electric bike and a charging station for an electric vehicle.

27. The mobile drone dock and delivery box for accepting goods/parcels in claim 26 wherein the optional feature is a collector to identify an explosive material, biohazards, illegal drugs, and an anthrax.

28. The mobile drone dock and delivery box for accepting goods/parcels in claim 26 wherein the optional feature is an ultraviolet scan system to eradicate disease, virus and harmful materials.

29. The mobile drone dock and delivery box for accepting goods/parcels in claim 26 wherein the optional feature is an ozone applicator to eradicate disease, virus and harmful materials.

30. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 further comprising one or more identification features, wherein the one or more identification features are a barcode reader and a Quick Response (QR) reader.

31. The drone dock and delivery box for accepting goods/parcels in claim 30 wherein the one or more identification features include a weight and dimension sensor, barcode reader, and QR reader.

32. The mobile drone dock and delivery box for accepting goods/parcels in claim 30 wherein the one or more identification feature is a tattoo printer for reverse logistics and reverse logistics for return of parcels. for return of parcels.

33. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 further comprising one or more additional features on the drone dock, wherein the one or more additional features is a weather monitoring system.

34. The mobile drone dock and delivery box for accepting goods/parcels in claim 33 wherein the one or more additional features on the drone dock is a tag and track component to track vehicles and packages.

35. The mobile drone dock and delivery box for accepting goods/parcels in claim 33 wherein the one or more additional features on the drone dock is a camera with facial recognition software to track humans and pets.

36. The mobile drone dock and delivery box for accepting goods/parcels in claim 33 wherein the one or more additional features on the drone dock is an encoded chip track to track a lost drone dock receptacle.

37. The mobile drone dock and delivery box for accepting goods/parcels in claim 20 further comprising one or more local features, wherein the local feature is a set of two-way speakers with a dog whistle and wherein the speakers can emit loud sirens to alert emergency vehicles and first responders.

38. The mobile drone dock and delivery box for accepting goods/parcels in claim 37 wherein the local feature is a set of LED lights that are colored and can strobe flash and wherein the LED lights can alert emergency vehicles and first responders.

39. The mobile drone dock and delivery box for accepting goods/parcels in claim 37 wherein the local feature is a flood light.