The following are step-by-step instructions for using our prototype:

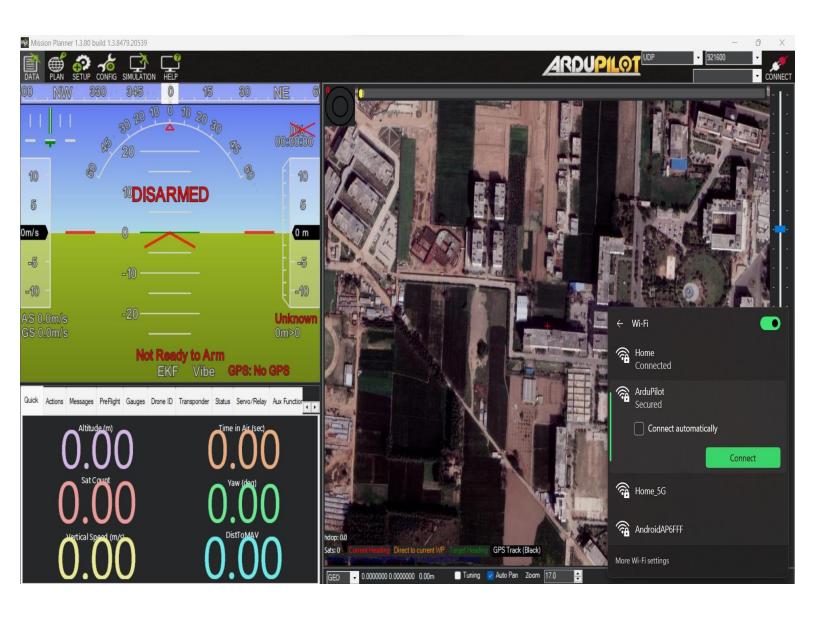
Step 1: Connect the battery to the drone's power module and mount it on the drone as shown in the figure below.



Step 2: Place the drone on a level surface ready for take-off.



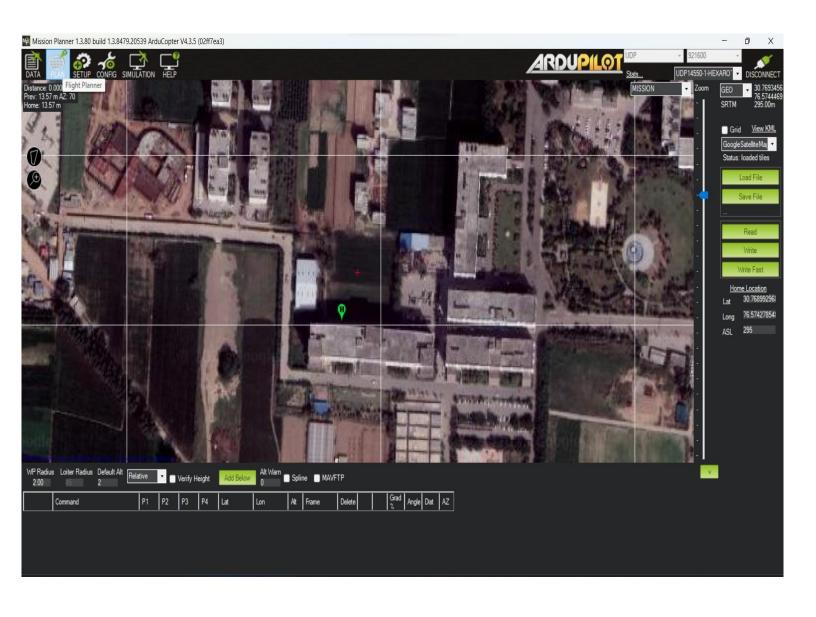
Step 3: Establish a wireless connection between the laptop or ground station and the drone via the Wi-Fi network named Ardupilot.



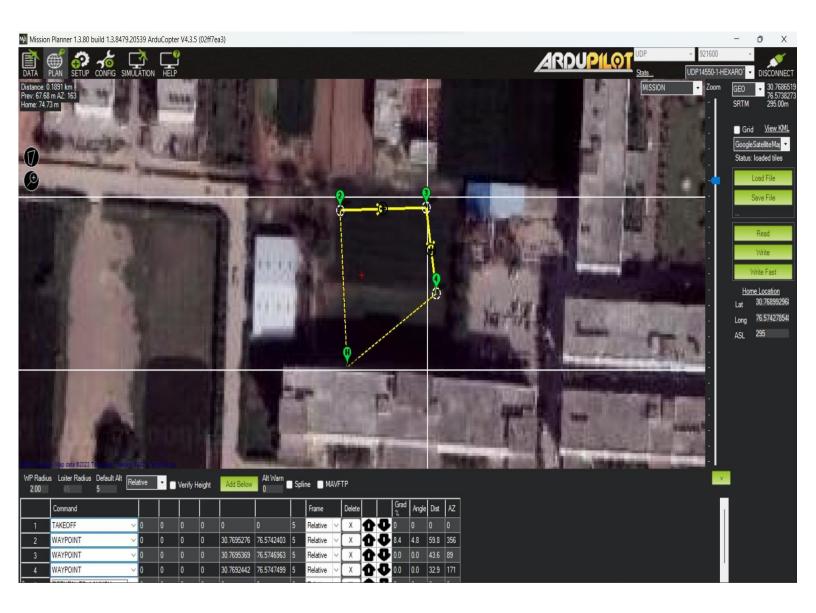
<u>Step 4:</u> Once connection is established, open the mission planner on your laptop and click the connect button located in the upper right corner of the mission planner screen.



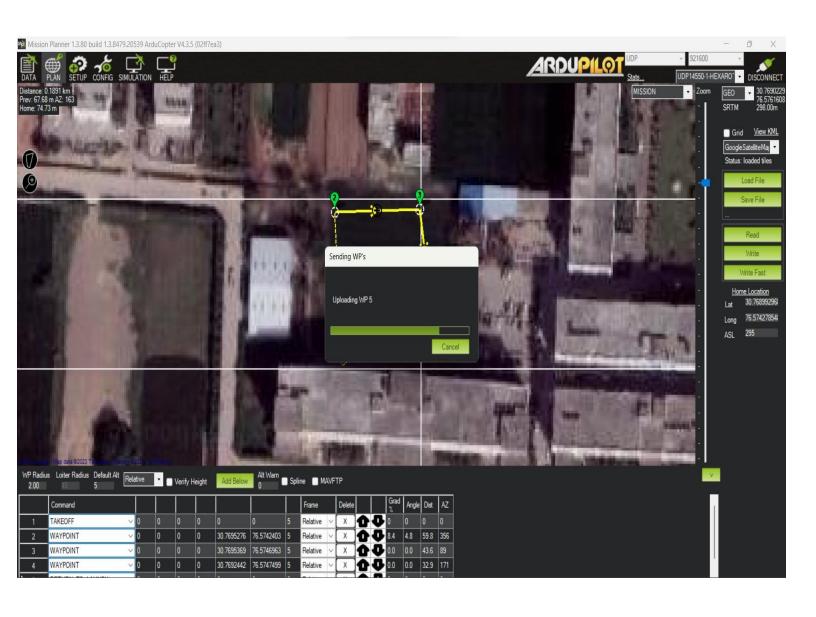
Step 5: To access the mission planner tab, click the Plan button.



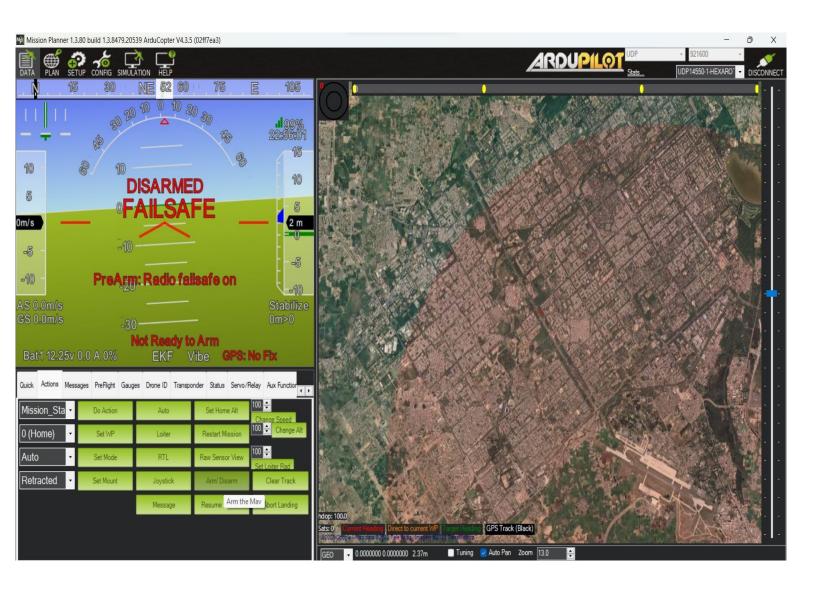
<u>Step 6:</u> Begin by assigning the takeoff instruction to the drone in the mission planner tab. Then, enter the desired waypoint for the drone to reach its destination. After completing the mission, use the RTL (Return to Launch) command to return the drone to its original takeoff point.



Step 7: After setting the waypoints, click the write button to send the data to the drone.



Step 8: Once the task has been assigned to the drone, go to the mission planner's data tab and click the Arm/Disarm button to give the drone permission to take off.



Step 9: After the drone is Armed, click on the Do Action button to prompt the drone to execute the task assigned by the user.



Step 10: Once the task is complete, disarm the drone and repeat steps 1-8 whenever you want to assign another mission to it.