

A white quadcopter drone is shown in flight, carrying a large white cube. The drone has four blue propellers and is positioned in the upper left quadrant of the frame. The background is a blurred city skyline under a clear sky. The title "Unpiloted Delivery Drone" is written in a large, white, serif font across the center of the image. A small blue plus sign is located below the word "Drone".

Unpiloted Delivery Drone



Goal – To be able to take off, track a given visual path, and land precisely on a fiducial marker.

Jonathan Edwards



- OS: 64 bit, Windows 10
- IDE: Visual Studio Code
- Language: python (python3.8)
- PC: Intel(R) Core(TM) i7-9750H CPU @ 2.60GHz, with GTX 1660Ti GPU
- Hardware/Camera: Tello Drone, created a 45 degree attachment for the front so I can look vertically downwards.
 - 5 Mp camera and shoots 720p video, 30-60FPS
- OpenCV version: 4.5.1
- Reference to paper: <https://123doc.net/document/7012448-detection-and-localization-of-helipad-in-autonomous-uav-landing-a-coupled-visual-inertial-approach-with-artificial-intelligence.htm> (Fiducial based approach)