

Reference Materials for Autonomous Drone for Delivery Services

1. Research Papers

- **"Design and Development of Autonomous Delivery Drones"**
Overview of autonomous drones in logistics and delivery systems.
[Link](#)
- **"Routing Algorithms for Drone Delivery Networks"**
In-depth look at algorithms for optimizing drone routes.
[Link](#)

2. Technologies

- **PX4: Open-source flight control software for autonomous drones.**
[Docs](#)
- **ROS (Robot Operating System): For sensor integration and autonomous navigation.**
[Docs](#)
- **TensorFlow: For deep learning models like obstacle detection and object recognition.**
[Docs](#)

3. Key Concepts

- **Path Planning: Optimizing drone flight paths for efficiency and safety.**
- **Obstacle Avoidance: Real-time object detection using computer vision.**
- **GPS and SLAM: Techniques for accurate positioning and mapping in real-time environments.**