Optimal Graph/Grid representation of the configuration space for VTOL aircrafts in UAM for efficient VTOL aircraft path planning and with minimal need for trajectory change for collision avoidance

**Information available:**

Buildings and any collision data

Max altitude limit and class access

Noise limits as per area

**What to focus:**

* How to optimally use altitude (vertical separation) in path generation
* Minimum vertical separation requirements
* Free flight or fixed path flight route