**REPORT**

**ON**

**DESIGN OF PATH PLANNING ALGORITHM FOR AIRCFART OPERATION**

By

AAE Group 8

Kam Ho LEUNG

Lok Hei NG

Pak Ho CHAN

Hoi Ki TSANG

Yat Chi KHIM

**Content**

1. Background of Path Planning to Aviation Engineering
2. Theory of Path Planning Algorithm
3. Introduction of the Engineering Tools
4. Python
5. GitHub
6. Task 1: Finding the PolyU Aircraft Model that achieve the minimum cost
7. Methodology
8. Results
9. Discussion
10. Task 2.1: Finding the PolyU Aircraft Model that achieve the minimum cost

(4 constraints with 2 variables)

1. Methodology
2. Results
3. Discussion
4. Task 2.2: Finding the PolyU Aircraft Model that achieve the minimum cost

(4 constraints with 6 variables)

1. Methodology
2. Results
3. Discussion
4. Task 3: Designing a new cost area that can reduce the cost of the route
5. Methodology
6. Results
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8. Reflective Essay
9. Reference
10. **Background of Path Planning to Aviation Engineering**