Unit of Study	COMP3888
Team name	COMP3888_T15A_Group1
Project Name	Optimal Path for Drone Delivery
Project start date	Monday, 14/09/2020
Project end date	Sunday, 27/11/2020
Project point person	Nicholas Hui
Report Date	12/10/2020

Quick description	Modified path finding algorithm, the scripting and spawning of the landing pads and charging stations in the simulated world.

Status item	Status up to last week	Planned for next week
Scope	Inserting charging stations and landing pads in the world. Algorithm able to visit multiple destinations with optimal path including factors like weather, battery life of the drone. Writing of the documentations for algorithms and the functions made by our team.	Ensure landing pads and charging stations are able to load in desired worlds without encountering issues. Prepare for Client Demo/ Deployment.
Time	The team is on schedule to finish the features needed for the Client demo next week, but there may have encountered some issues in completing some project scopes.	
Quality	Have some issues with the path finding algorithm for the drone delivery.	
Planned Activities		Able to have a path finding algorithm that visits multiple destinations that factors in battery life of drone, weather etc. Well documentations of the project.
Achievements	Generation of both the landing pads and charging stations in an empty world and the set world.	
Major deliverables	Python program to generate coordinates and alter a given world map to include specified objects at these coordinates (i.e. spawning charging stations).	Refined python program to generate charging stations at the maximum possible radius of the drone and not on top of other objects (i.e. implementing objection detection to allow for regeneration of objects at a new location).

	Python script to automate the navigation of the drone for the delivery in both the landing pads and charging stations. The new algorithm is able to visit multiple destinations.	Adding new factors into the algorithm.
Major issues	The algorithm has some issues with visiting charging stations.	
Major risks	Understand the scope and the requirements of the project, to reduce unnecessary work done among the team.	
External dependencies	NIL	NIL
Estimated effort (h)	12hr/person	15hr/person
Recorded effort (h)	16hr/person (on average)	
Overall Status (RYG)	GREEN	