# Supervisor Meeting

# Patrick Devanney and Dr. Jessica Enright

October 21, 2020

1. Meeting Summary
   * 1. The first point made in the meeting was in regard to the status of the Dissertation pipeline.
        1. Discussed that the Dissertation pipeline is still an ongoing issue. However, will hopefully be fixed soon.
        2. This was followed with the discussion on creating a pipeline and workflow to run the Python Unit tests being created.
     2. The next point was a discussion on what had been completed in the prior week since our last meeting.
        1. Due to additional work. I was not able to complete a full 15 hours. However, the following was completed.
           1. Began to implement Unit Tests – This is ongoing.
           2. Implemented the function for optimising the search of the Target from the towers.
     3. The final and most lengthy part of the meeting was the discussion around the implementation of the Optimised movement of the Target.
        1. Using a Combinatorial Searching algorithm would be one approach to take to calculating this. A\* is an optimised version of this type of algorithm.
           1. Jess then took me through graphical and visual diagrams and drawings to help me understand the mathematics and logic behind these algorithms.

The goal would be to find all maximal paths from a node without it being caught and calculate the longest.

1. Plan of Work

The last action of the meeting was to determine the Next steps for the next week of the meeting.

* + 1. Continue creating Unit Tests. For all current functions to ensure code foundations are correct.
    2. Spend time updating the Wiki so its doesn’t fall too far behind.
    3. Begin looking into the optimised movement for the Target. And possibly begin implementation for the heuristic approach