## Assignment 2 Report

Encapsulation in this project is applied by private access modifiers along with getters and setters. In addition, assert statements were used to prevent Null Exception errors and negative distance value.

In terms of design principles seen in class, the movement interface is implemented by the concrete move class. Polymorphism is also applied through the Trick parent class. This class is implemented by 3 child classes. Two classes which implement the Comparator interface were used to allow the client to compare flights in ascending order of number of tricks, or number of unique moves.

Trade offs: Could have made Trick an interface but a parent child relationship between classes was optimal as the Flight takes an ArrayList<Trick>.

Different options: Instead of utilizing switch statements also known as an anti-pattern, using multiple enums was the favorable design choice to make.

Finally to satisfy the required problem statements, my design assumes that the Drone executes the Flight and can execute one flight at a time. The client can choose to record a trick in the flight which will record all the moves in the trick instead of each move individually. This is to prevent information leaking. Client does not have access to the list of moves in the trick.

