

sdmay18-30: Intelligent low-altitude air traffic management system

Week 6 Report

October 23 - October 29

Team Members

Humaid Al Kaabi — *Software Developer*

Suhail Aldhaheeri — *Communications manager*

Jun An Tan — *Software key concept holder & Report checker*

Saad Alsudayri — *Simulation of Trajectory function*

Summary of Progress this Report

In this week we finally been able to finish the two main functions of our software. They are 1)function that create flight requests and 2) function that gives permission to fly. These function so far are 90% accurate and need to be debugged in order to have better results.

Pending Issues

The functions that we just completed are not working perfectly, so further testing and debugging is required. We will ensure that this is solved before moving on to the next problem (creating our front end display). We foresee that we will be having problems in creating the front end display due to our lack of experience in the field. Like our main functions(algorithm) , we will probably be spending a few weeks on research and various test trials on the creation of GUI(front end).

Plans for Upcoming Reporting Period

we will proceed with research and testing to combat the issue of "how to create a GUI". At the same time we hope to be able to completely debug the problems that we are facing. The plotting function has been a major problem for 3-4 weeks ,so after achieving full functionality of the 2 main functions, we will proceed to tackle that plotting function together.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Humaid Al Kaabi	For the given period, I worked on finishing of the main functions, give permission for the flight requests, I have done it three times before being able to create the last function. The first three functions were taking to much time in calculating, so I needed to find a way that does not require much time to run. I also worked on fixing the random generating function, because the output was not in the correct range. Finally, I created a function that print a Matlab code that print the trajectories to make sure that our functions	8	61

