Planning sheet – Team: **Parsley**

Week 1:

Task	Deliverable	Score allocation	Score achieved
Understanding the fundamental of drone flight and off center spinning mass	Show the mathematical Derivations/Equations	4 /10	
Identify the drone specifications	Show the resources to use/control/program the drone and being able to work with the drone	5 /10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 2:

Task	Deliverable	Score allocation	Score achieved
Deriving required equations to describe our flight system and start working on the simulation model	Show the mathematical Derivations/Equations and explain how our flight system works	4 /10	
Hack the Drone controller (use ps4 controller for driving the drone)	Demo on controlling the drone with PS4 controller	5/10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 3:

Task	Deliverable	Score allocation	Score achieved
Code the system using mathematical model	Demo of our system run in the simulation environment	4 /10	
Find the proper material to be used for the OCSM motor and start building the prototype	Show the material picked and the progress in building the prototype	5 /10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 4:

Task	Deliverable	Score allocation	Score achieved
Have the OCSM prototype ready and testing it OCSM =off center spinning mass	Show the demo on OCSM prototype	4 /10	
Calibrate and correct the model based on the data got from running simulation	Show the modifications added to our previous mathematical modeling	5 /10	
Documentation	Show the recorded progress and write up	1/10	
Total		10/10	/10

Week 5:

Task	Deliverable	Score allocation	Score achieved
Derive the right controller model to implement on the drone	Show and explain the derived model	4 /10	
Continue on OCSM module which will be attached to our drone	Demo on prepared and built OCSM module	5 /10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 6:

Task	Deliverable	Score allocation	Score achieved
Improve the controller model based on data collected and simulation data	Show and describe the controller model improvements	3/10	
Implement the sensor fusion adding our required sensors or using the sensors on the drone	Do a live demo with drone and show the collected data from the sensors on the drone	3/10	

Start designing controller circuit	Show the schematics and board file	3/10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 7:

Task	Deliverable	Score allocation	Score achieved
Testing the model with drone+OCSM module attached (1)	Share the test results and outputs	4/10	
Finish the controller circuit	Show and explain the prepared finished board	5/10	
Documentation	Show the recorded progress and write up	1/10	
Total		10/10	/10

Week 8:

Task	Deliverable	Score allocation	Score achieved
Testing the model with drone+OCSM module attached (2)	Share the test results and outputs	4 /10	
Measure the accuracy of controller	Show data and results through demo	5 /10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 9:

Task	Deliverable	Score allocation	Score achieved
End to end testing and final corrections	Share any change and modification to our system based on end to end testing	4 /10	
=	Share the recorded demo	5 /10	
Documentation	Show the recorded progress and write up	1 /10	
Total		10/10	/10

Week 10:

Task	Deliverable	Score allocation	Score achieved
Any minor details forgotten or /not taken care	show how we fixed the errors and unexpected problems happened during the process of working on the project	4 /10	
Final Presentation	Present our project	2/10	
Record and add any final change to our documentation	Final paper on our project results	4/10	
Total		10/10	/10