

RED Delivery System
(Recovery and Deployment System)

Team Members:

Andrea Swanson - aswanson2016@my.fit.edu

~~Marley Scott - msscott2016@my.fit.edu~~

~~Miguel Colmenares - mcolmenares2017@my.fit.edu~~

~~Basilio Caruso - bcarus2016@my.fit.edu~~

~~Murtaza Fatakdaawala - mfatakdaawala2016@my.fit.edu~~

~~Akshata Patil - apatil2016@my.fit.edu~~

~~Syed Faique Al Hussain - salhussain2016@my.fit.edu~~

~~George Chen - gchen2016@my.fit.edu~~

~~Michael Heath - mheath2017@my.fit.edu~~

~~Nishant Sriram Narayanan - nnarayanan2016@my.fit.edu~~

~~Joao Nene - jnene2016@my.fit.edu~~

Faculty Advisor:

Siddhartha (Sid) Bhattacharyya - sbhattacharyya@fit.edu

Client:

Markus Wilde (Aerospace) - mwilde@fit.edu

Milestone Project Matrix:

Task	Completion	Andrea	To Do
Use detection tool to provide appropriate “flight path” corrections for docking	100%	100%	none
Use detection tool to display distance in meters to ideal docking position	100%	100%	none
Display ideal docking position with a graphic	100%	100%	none

Discussion (Tasks):

- **Use detection tool to provide “flight path corrections” for docking:** The program simulates the docking process by replacing the execution of correctional flight commands with directional arrows appearing on the screen based on the location of the detected marker from the view of the camera.
- **Use detection tool to display distance in meters to ideal docking position:** In the corner of the screen, the distance in meters from the ideal docking position is displayed to simulate the values that would be sent in the flight commands.
- **Display ideal docking position with a graphic:** When the camera that represents the drone is considered to be close enough and centered enough to execute the final docking flight command, there is a text displayed on the bottom of the screen.

Discussion (Contributions):

- **Use detection tool to provide “flight path corrections” for docking:** Andrea completed this in full.
- **Use detection tool to display distance in meters to ideal docking position:** Andrea completed this in full.
- **Display ideal docking position with a graphic:** Andrea completed this in full.

Client Meetings:

The project is moving forward without the client.

Client Feedback:

Not applicable.

Faculty Sponsor Meeting:

Monday, April 20 @ 1:30pm

Feedback from Faculty Sponsor on each task for the current Milestone:

Draw up a software architecture diagram that describes the interaction among the different components (Software/Hardware).

Faculty Sponsor Signature: _____ Date: _____

Faculty Sponsor Evaluation

Faculty Sponsor: detach and return this page to Dr. Chan (HC 322)

Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

NOTE: Although the three students are considered to be computer science additions to the group, Andrea is the only student listed as a student enrolled in Dr. Chan's class.

Andrea Swanson	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Miguel Colmenares	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Marley Scott	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Faculty Sponsor Signature: _____ Date: _____