January Week 4 Meeting Minutes

Dates: Jan 26th – Feb 1th 2015

New Updates and Questions

Ludger: we need to show that the Quadcopter is autonomous.

Ludger: When you have time please update and add details to the sections you wrote. I believe this is not due until Thursday (1/29). What's most important right now the test plans which is due Tuesday (1/27)

Kevin: Shouldn't we have a common template for the detailed test plans

Nandi: An email was sent with the common template that we are going by for the milestone.

Ludger: I will everyone an extra day to turn in the test plans with details because I will not be able to fill it out until tomorrow.

Ludger: Each person talk about what tests they will be performing and other members can say what they think should be included in the test, if they should exclude the test or add an addition test. If you guys don't meet up at 5. Let's all choose an hour tonight read each other's test plans and state what we think on GroupMe

Ruben: the remote was dead but will work on it this weekend

Ludger: Should I do a blade protection test or should I just leave that out?

Nandi: But don’t let it be a main priority, are we still doing the Bluetooth connection for the camera

Ludger: I believe so. Don't you need a test to see if the GoPro with the program?

Nandi: Yea that’s with compatible test

Ludger: The SLAM compatibility test is talking about using windows and IOS?

Nandi: Slam camera is the one it test it on

Ludger: I believe the ArduPilot Communication Test will be done over Bluetooth.

Ludger Question: Can we think of another test that should be added for Kevin? I thought we were trying to bypass Mission Planner?

Ludger Question for Ruben: Your Bluetooth Connection Module Test will not be bypassing the base station because that is where the speech processing is done.

Ludger Statement for Ruben: I do believe that we need the Remote Function Test since the RC remote will not be used at the end of the project. We also need a test for the 3DR Radio.

Kevin Question for Nandi: are you sure u want to use Bluetooth for communication between copter n base stations? We will have to get a receiver and a transmitter plus I am not sure what type of coding we will need to do. If we try to use the radio hardware on there already all we need to do is get a transmitter n modify the code already there

Nandi: I was going to use Bluetooth USB ports to send images from the air to the base station.

Kevin Question for Nandi: For sending the images back to base station from Quadcopter? I think we should just try to store the images while in flight n transfer them when it’s connected to base

Ludger: We still got the radio set on the Quadcopter. Will that be better?

Ludger: You have any idea have the imaging will be sent from the Quadcopter to the base station?

Kevin shared a link: <https://learn.adafruit.com/adafruit-micro-sd-breakout-board-card-tutorial/intro>

Dr. Bernadin expressed that it was ok to save the live feed from the copter and upload it to the base station and make the 3D model of the eyes of copter while it was in flight.

Ludger: Can you do some research to see which one will be better? Live feed or saving on the SD card.

Nandi: Live feed would be me buying more parts. And SD card finding a program that would take the saved input and crafting a model

On January 29th the draft for milestone 4 was uploaded on the google drive so everyone is able to work on it.

New website URL:

[www.eng.fsu.edu/ece/senior\_design/2015/team09/](http://www.eng.fsu.edu/ece/senior_design/2015/team09/)

New Postions:

Ludger Denis: Project Manager – Hardware – Finance

Kevin Powell: Software – Website

Nandi Sevillian: Image Processing Research – Blade Protection – Secretary

Ruben Marlowe: Software – Communication

New Meeting Times

Group Meeting January 27 @ 9pm – 1am through GroupMe

Meeting with Dr. Frank January 29 @ 2:00pm

Group Meeting January 29 @ 2:30pm

**Due Tuesday (2/3/15) @ 5pm:**  
Rough draft of the paper due   
autonomous flight video done   
BitVoicer demo video done

**Due Thursday (2/5/15) @ 2:30pm**  
Paper due   
rough draft of slides due - groups input on the slides we created individually

**Due: Tuesday (2/10/15) @ 5pm**   
slides complete with our first practice

Friday, February 13, 2015 @1pm will be milestone 4 presentation

New Due Dates or Milestones

**Due this Thursday Jan 22, 2015 @2:30pm:**

Everyone needs to have a test plan list set for their section of the Quadcopter. Answer the questions what are you looking for as a result of the test and why are you performing the test.

*Kevin - Speech involvement*

*Nandi - Image & Protection Involvement*

*Ludger - Hardware & Budget involvement*

*Ruben - Autonomous & Communication involvement*

If you are able to come up with ideas for the other members don't be afraid to share it with the group tomorrow during our meeting tomorrow. Ludger will have filled out all the blanks in the paper from milestone 3 and to milestone 4

**Due Tuesday Jan 27, 2015 @5pm:**

Test plans with details for the paper. There is an attachment with this email with the layout of how he would want us to describe the test plans for the paper.

Video for autonomous flight - if it is not able to be finished before the meeting we should be able to perform it during the meeting so everyo9ne should be able to get an understanding on how the program works.

Ludger will have our paper assignments for the next milestone so we can get a head start on what we need to write about.

Presentation date finalized

**Due Thursday Jan 29, 2015 @2:30pm:**

Paper assignments due and additional assignments below

*Ludger- Power analysis*

*Nandi - test plan schedule due and list of programs that can be used for the image processing*

*Kevin - good understanding of the code*

*Ruben - communication between Bluetooth and base station*