February Week 1 Meeting Minutes

Dates: Feb 2nd – Feb 8th 2015

Priorities for Project

**Priorities for the Project**

1. Autonomous
2. Voice Control - she will be fine with the commands fly up, fly down, turn on & turn off
3. Blade Protection - needs to be under $500
4. Live Feed
5. Image Processing - she just want to be able to show that it can be possible, so we are basically getting her ready for another project that she has in mind.

New Updates and Questions

Tuesday February 3, 2015 4:00pm - 5:21pm

Ruben was able to show how to perform Autonomous flight with Mission Planner and a Video was recorded so we are able to go back and use that as a reference when we need to do test plans with the copter. Video will be uploaded later tonight.

Nandi found out the the slam source can only use live feed and note saved videos. She may had came up with some plan that may work and she is going outside of the budget to but these test bluetooth gadgets to see if the connection is strong enough for a video or picture to be sent.

Kevin brought up the Bluetooth Data Link with in the meeting. one of his ideas is have two B.D.L. and two micro controllers within the communication for the voice control and have the micro controllers to be able to talk to one another like "walkie-talkie"

Ludger we need for you to remember to bring the extra batteries so the autonomous flight can be recorded

Questions or Concerns:

* Can a Camera be used as a live feed directly hooked up to the computer?
* Research on the Bluetooth USB Devices so that the connection can be wireless
* Test to see if the computer can take in two different type of bluetooth inputs at one time
* What other pins are not being able to be used on the microcontroller

Milestone 3 Paper Transition to Milestone 4 Paper:

Our weakness on our paper was the ***Analysis Subsystem Design*** and ***Written Communication*** on the Rubric

* Dr. Bernadin wants us to be a little more clear on how the commands will be communicated to the controller
* Do not abbreviate anything within the paper
* Check Grammar and Spelling errors
* Make sure that there is no big white spaces within the paper.
* Don't make the pictures, diagrams or charts too big
* Have a text below or on top of the picture to describe the figure or chart.
* Need to explain in detail on how we are bypassing mission planner
* Try to reference the figure within the text to show how does it relate to the description of modules
* Dr. Bernadin wanted to know if we could use a automated switch to turn on the camera or image processing while in the air?
* Under Project Executive Summary
  + "the current....this project a success" Paragraph needs to be re written she had a question mark beside it. so we would have to reword it, if it hasn't been done already.
* Under 1.3 Operating Environment
  + "the importance...practicality" is not a complete sentence
* Under 2.1.4 Software Level Overview
  + She wants us to choose between the microphone on the computer or bluetooth headset. maybe try to say that we are able to have more resources for the voice communication but we are leaning towards the bluetooth headset
* Under 3 Hardware Assessment
  + need to explain the mobile device on CAP-08
* Under 7.2.2 Strategy
  + there was errors, meaning there was still some words or examples that doesn't relate to out project under this section

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 and Updates

Group Meeting February 3 @ 4:00pm – 5:30pm

Group Meeting February 6 @ 2:30pm – 3:30pm

**Meeting with Dr. Bernadin: Friday February 6, 2015 at 10:00am**

Senior Design: NO CLASS Thursday February 5, 2015 at 3:30pm

Meeting with Dr. Frank: Thursday February 12, 2015 at 2:00pm

***Next Meeting is Thursday at 2:30pm (2/12/15)***: this meeting will be a practice day for out presentation on the following day

Senior Design: NO CLASS Thursday February 12, 2015 at 3:30pm

***Next Meeting is Friday at 11:30am (2/13/15)*** just a run through and making sure the slides and everyone is prepared for the presentation

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

New Due Dates or Milestones

**Milestone 4 Paper: Thursday February 5, 2015**

**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

Rough Draft Slide Presentation: Sunday February 8, 2015

Understand that the rough draft slides has to be uploaded on Google drive by ***Monday night (2/09/15)***

Test Videos (Autonomous, Voice, & Image): Tuesday February 10, 2015

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

All Videos that shows accomplished goals has to be finished and finalized by ***Wednesday (2/11/15)*** for the presentation day.   
  
**Milestone 4 Presentation: Friday February 13, 2015 at 1:00pm** (Location TBA)