Week 9 Meeting Minutes

Meeting 1

11/6/14

2:00 pm – 3:25 pm

Meeting 2: Dr. Frank

11/6/14

4:00pm – 4:30pm

Presentation: Drone Seminar Location: AME

11/6/14

4:00-5:00pm

Meeting 3: Dr. Bernadin

11/7/14

9:30-10:00am

Next Meeting:

11/13/14

2:00-3:30pm

Next Meeting: Dr. Bernadin

11/14/14

9:30-10:00am

Milestone 3 Paper

Due: 11/14/14

Milestone 3 Presentation

Date: 11/25/14

2:00pm-3:00pm

Dr. Frank meeting expressed that we need to improve on the information that we discussed within the presentation with a little more detail.

Detail Risk Assessment – everything and uncertain information about the project

Risk Analysis – certain things that can’t be done, not sure on certain features, & be confident on solutions that can be possible and if you need to plan again don’t hesitate

Choose Option – Risk of wasting time and buying products for certain features

Report – References on the photos, graphs or charts that were used

3D Mapping – is becoming primary for the project while the Search and Rescue is going to be a secondary feature.

Presentations next semester will be in February and April while March and April would be presentations for the audience and advisors

Also have a detailed test plan for the upcoming milestones for the group.

Drone Seminar was expressing flight rules and regulations. One of the options that they brought up that can be used within the project later on that help with the flight time is magnesium fuel cell. This consist of salt water and magnesium plates. With these tools it was more efficient and has no harm to the environment. It only took 15 minutes to empty the excess water and replace the plates but the flight time was for hours.

Contact information:

GUSC OPPORTUNITIES

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[www.guscenter.com](http://www.guscenter.com)

Dr. Bernadine meeting was expressing the interfacing between each individual features. Bitvoicer if software that recognize voice and go to the commands. The output is yet figured out on how we would implement it within the Octocopter. With the image processing we are looking for accurate better than time. Processing to Quadcopter then send it to the base station was an idea that was brought to mind. Panorama or live video feed. Digital Reconstruction or a visual image on what is going on. Ideas to also remember is placing the voice to control the gimbal and camera.

Assignments:

Kevin: speech processing and software integrations include:

* Detail configuration
* Pin assignments
* Flow chart
* Data flow
* System level schematics
* Detail description of how everything communicates
* Any other specifics that was not mention

Everyone:

* Blue lines communication
* Red lines power lines
* Black lines hardware
* Green lines process line – a function like video recording or speaking

Ludger:

* Power system
* Hardware configuration
* Budget estimates
* Detail system level schematic
  + With a description of how everything communicates
  + Current voltage values on the most important lines
* Risk assortment for each system
  + Budget
  + Hardware
  + Power
  + Include numbers and predictions

Nandi:

* Image processing
* Blade protection
  + Include all measurements ideal
  + Material imagery
    - Color
    - Dimensions
    - Weight
    - Risk assessment on each
* Schedule
* Risk assessment – which things may not be done by deadline in detail why
* System level schematic of image processing with slam
  + Communication processing and hardware lines
  + Great detail on how everything communicates

Ruben:

* Executive summary
* Introduction
* Conclusion
* Communication system
  + Schematic of how everything relays information to one another with detail description of how it works along with a risk assessment of interference power
  + Failure hardware