October Meeting Minutes

October 1, 2014

5:00pm -7:00pm

October 2, 2014

1:30pm-3:00pm

Going over the presentation for the milestone 1

Ruben: “Next presentation we will be better and be able to answer the questions we couldn't today n that will be the initial start of the presentation.”

Assignments:

* Kevin can u get started one the software block diagram.
* Ludger will do the hardware block diagram and I'll do the interface diagram between both hardware and software. Also make sure you had a camera to the hardware platform.
* Nandi and Dereck do research on slam algorithm and come up with a block diagram for it.

October 3, 2014

9:30am – 10:00am

With Dr. Bernadin

Room B350E

Assignments:

* Kevin Powell research n see if the Ardupilot 2.6 is programming and how to program it along with your block diagram for the software portion of the project /
* Nandi and Dereck research slam algorithm how it's used how to program it to hardware and what hardware would we need to make it possible so look into interfacing slam with a camera. Nandi was able to find a book that may help out with the research. “Probabilistic Robotics” this will help with the algorithm for the image processing
* Ludger come up with the specific budget along with the input of the rest of the group the specific hardware to do each task. Also start on the hardware block diagram.
* Ruben will do the Uspeech research, n put more documentation on interfacing between two software and the overall block diagram for entire Quadcopter.

October 9, 2014

2:00pm – 3:00pm

Room A323

October 9, 2014

5:30pm – 6:00pm

With Dr. Frank

Goals:

* To meet today and go over the block diagram ideals
* Discuss the paper
* We’ll meet as a whole tomorrow before senior design & after senior design.

October 11, 2014

9:30am – 10:00am

Room B350E

With Dr. Bernadin

Goals:

* Email her the budget list n I'll speak with her later.
* Ludger needed to access to the key for the lab after hours because he works on campus

October 15, 2014

2:00pm – 3:00pm

Room A323

Goals:

* Ludger took the batteries home and charged them up so we can have batteries for testing

Warnings:

* The only problem is that the charger may not indicate that the battery is fully charged which if it is charged over the capacity it will be a warning hazard so we brought a volt meter to make sure it was close to maximum

Accomplishments:

* Ludger gave the information to the ECE office for the key request

October 18, 2014

9:30am -10:00am

Room B350E

Goals:

* Your slides for the presentation should be over the same things you wrote for on the paper. Be specific have illustrations that show clear what you're trying to say.
* A very detailed and graphic diagram should use for the system schematic use one from online if you can produce one that's professional and very detailed.
* Try to keep your slides to a Max of 15 per person and use the paper as a reference. Have a rough for practice on Tuesday evening

October 23, 2014

2:30pm – 3:00pm

Room A323

October 23, 2014

5:30pm-6:00pm

With Dr. Frank

Assignments:

Luger - hardware Concept generation/selection

* Power efficiency, blade protection, power consumption, hardware decisions base on needs and requirements
* block diagram
* Budget

Nandi - Schedule (duration, goal specific, and member responsible)

* Slam block diagram, concept decision and assumptions based on research and project needs, constraints outside interference, complexity,
* what is it why it was chooses is there a better alternative what devices are needed to utilize the algorithm any real world examples

Kevin Software Analysis & Concept Generation

* What's needed to get the job done? Which software and why?
* A more detail block diagram with more visual concepts that helps materialize the concept of each interfacing concept that going on through the life cycle of the software.
* Talk about alternatives, complexity, devices needed, pros and cons, and real world examples to follow if any. API (application programming interfacing a great concern)

October 24, 2014

9:30am-10:00am

With Dr. Bernadin

Room B350E

Confirmation:

* Presentation is Wednesday 4:30pm October 29th
* Dr. Bernadin class next semester on speech processing would help with the senior design

October 30, 2014

2:00pm – 2:30pm

Room A323

Announcements & Reminders:

* 2Weeks from today the next paper is due i feel like we need to have group research so if we have any questions whole writing our section we can physically be there. Because there is a lot of question that need to be answered and confusion that needs to be cleared up so we can be on the same page
* And autonomous needs to be finished before December everyone needs to know how operate it and explain it and need a video explaining it if we are not able to present it

October 31, 2014

9:30am -10:00am

With Dr. Bernadin

Room A350E

Accomplishments:

* Ludger has the key for the new lab location

Assignments:

* Ludger - power system, hardware configuration, and budget estimates include detail system level schematic with a description of how everything communicates also put current n voltage values on the most important lines n do a risk assortment for each system (budget risk, hardware risk, ad power risk) include numbers n predications
* Nandi - image processing, blade protection, and schedule is already complete so just do a risk assessment of which things might not be done by deadline n detail why do a system level schematic of image processing with slam include communication processing n hardware lines give a detail description how everything communicates for blade protection include all your measurements ideal Material imagery if possible color dimensions weight and other necessary requirements and do a risk assessment on each
* Ruben - executive summary, all parts of the introduction, conclusion, and communication system. Overall 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 failure n etc
* Kevin - speech processing and software integrations include detail configuration a pin assignments flowchart system level schematics and a detail description of how everything communicates and any other specifics I fail to mention, Data flow as well
* For everybody blue lines communication lines red lines power lines black line hardware lines green lines process line (process means a function like video recording or speaking )