Log of Remco Geuze

Week: 47

Moment of writing: 23-11-2015

Log number: 4

# What I worked on:

Following is my log of what I did during the last week, a txt version of this log will also be available.

Last week I got the Kalman Fushion Filter assignment working in java, the way it is made right now will allow me to copy the code to a threaded setup.  
During the week I spend quite some time on the multi threaded backend.  
I have problems with the communication between threads however.  
I have thought of ways of solving this however those methods will use things that I have not done yet in java so they take longer than usual.  
I looked into how the covariance matrices are defined, however I do not have a good understanding as of this morning.  
I am hoping that Débora will be able to explain where they come from and how we can define them using experiments.  
I made a new datastructure which I have tested as well for the multi threaded setup.  
We had a group meeting on Wednesday afternoon, during this meeting it was decided to separate the grading for this project.  
The grading would be individual in 2 parts:

* Everything before that Wednesday.
* Everything from that Wednesday till the end of the project.

During this meeting we also agreed on a different schedule.  
This is a schedule which was created during the supervisor meeting on the Monday of 16th of November.  
During this meeting only I and Bryan Williams where present. The schedule we came up with should be doable with 2 people working, (or 1 person working really actively).  
The schedule redefines the goal of the project, the new goal does not focus on visualizing but does focus on documenting.  
During this meeting we also came up with the idea of me giving a pcb design workshop for my 2 group mates.  
I will need to look into this however, I am using an old version of ultiboard, this software is not supported anymore.  
What would be best is to work with Eagle, seeing as how the hanze will soon have licenses for this.   
I however have never worked with Eagle and will need some time to figure out exactly how it works

# What I think the rest of the group worked on:

# It is my understanding that Débora has worked on the kalman filter assignments, she has finished the first one, I do not know about the second one. As far as I know Junior has gotten communication working with the sensors on Wednesday. He also created a very basic program using a kalman filter library. In my opinion this is not the way we should go since it will not help us understand the filter if we just have a black box that does it...

# Availabillity:

The word version of this log will be send to Bryan Williams.

The word version will be uploaded to blackboard.(file exchange of this group until we have a different location)

Both the word and the txt versions will be available on github:

<https://github.com/Ylvakiller/WeekLogCENSI>

This github will hold all the weekly logs