Supervisor meeting
Monday, 7th of February 2016

Sent Material

Corrective suggestions from the supervisors have been sent by email for later reference.

Linearization

- See the comments about the bar notation in the received correction pdfs.

- Say that the θ_F and its derivative are 0 as well as the angle θ_w. Then the torque ends up being zero.

- About equation 3.19 to 3.21: Sum up what equations the model is made of and regroup the similar terms.

- About figure 3.4: clarify what we want to show with this diagram. The 'area' is more of an interval in which the linear approximation stays somewhat close to the real sine function.

Verification of Model

- The idea behind figure 3.6 is to compare the linearized equations and block diagram. It is still a good idea to use this graph of comparison between model and equations in the report.

- It is also necessary to compare the original non-linear model with the linearized one.

System Test (grouped data points)

- Try to do a (rolling) average of the potentiometer data.

- Show this process in the report.

Miscelleanous

- Motor model → use a simple model, matchig the behavior of the motor controller, at first and improve it later, once a working controller has been implemented.

- Sensors → same thing: stay with the potentiometer for the moment

- In later iterations, it might be possible to implement some filters for other sensor types.

Next Supervisor Meeting

Monday, 14th of March at 13.00