Weekly Meeting Report

Ole Einar Kværnsveen Belboe
Elias Loe Eritsland
Admir Meta

March 13th 2023

1 Meeting overview

In this meeting, discretization of the mathematical model presented 3 weeks ago was discussed. It is necessary in order to implement the Kalman filter. Since the parameter estimation script is almost completed for the continuous time model, the discrete time model will be written in a new script.

Regarding the hardware, a discussion was opened on whether we should continue on the 3D-design recommended by Elias. Damiano recommended a new design. It was decided that the new design would be evaluated during the next 2 weeks.

The reading on the Kalman filter has stopped due to a pending exam for the group, taking place at March 20th.

The data logging script is completed. The parameter estimation script is almost done. Work will begin on a new script which uses the discrete-time model.

There will not be a meeting next week due to the pending exam in INGT2300 Ingeniørfaglig Systemtenkning.

1.1 Conclusions from the meeting

- Discretization of the mathematical model is necessary.

- Reading on the Kalman filter has temporarily stopped.

- The data logging script is completed. The parameter estimation script is almost done. Work will begin on parameter estimation of the discrete-time system.

- A new design, recommended by Damiano, will be evaluated during the next 2 weeks.

- There will not be a meeting next week due to a pending exam.