Weekly Meeting Report

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March 27th 2023

1 Meeting overview

In this meeting, the hardware design recommended by Damiano was discussed. It was decided that the group shall complete the design given by Elias, since the design provided by Damiano was not clear.

The reading on the Kalman filter has begun anew. It is progressing at a good pace.

The discretization of the model is not yet complete. Some confusion has been noted, namely in the choice of discretization (forward Euler method). The Runge-Kutta method has been used to this point. It gives good results, but with the disadvantage of not knowing the discretized model. This model is needed for the next phase in the thesis work, namely the design of the Kalman filter.

The parameter estimation script for the continuous-time system is completed. Work on the parameter estimation for the discrete-time system is underway.

The data logging pipeline will be run at least once before the next tri-weekly meeting.

1.1 Conclusions from the meeting

- The group has decided to go forward with the design provided by Elias.

- Discretization of the mathematical model has noted problems.

- Reading on the Kalman filter has started anew.

- The parameter estimation script for the continuous-time system is completed. Work will begin on parameter estimation of the discrete-time system.

- The data logging pipeline will be run at least once before the next tri-weekly meeting.