Accomplished this week:

During the last week we analyzed the work accomplished so far. The Improved PID we designed seem to have a design error, so we are going to try to improve it further. Instead we are going to focus to find a model for future development of the regulator. We are also going to log the regulator so that we can compare the improvements with our regulator. We will also examine if we need to use an overall PID which compares the reference value between the both DC motors.

We are also going to implement a function which compares both DC-motors energy consumption so that we can detect slip. This information will be sent through CAN and IT-group has to decide how to process this information.

Also the IT group is currently in Germany for “RoboCup German Open”. The code improvements that our group has provided are slow stop and shorter sampling time.

Current problems:

We still have problems with system identification, we have some interesting and satisfying simulated results, which unfortunately don’t work in our robot. So we have asked for help from Alexander for further analyze of the system identification.

Actions points for next week:

- Solve the problem with system identification.
- Find a stable regulator that works both in theory and in reality.
- Report via CAN slip detection

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