Weekly Report, w. 15 – Group 5

We have a semi-balancing robot but we have run into some problems with the brick. We don't know if it's hardware or software related. The motors simply stop working with predictable intervals. We are investigating the problem and have so far concluded that it's related to the control values on the motors and to some degree the rate they change. As we suspect this might actually be firmware related, we are thinking about trying out another firmware that doesn't use RobotC.

The non-linear model has been left for the time being. Some errors were corrected in the last implementation but the model does not behave as it should. It is based on the NXTway-GS documents motor equations and we fail to see what we've done wrong. We are not sure we should spend more time with the non-linear model simulation, we might be better off spending that time on the actual hardware stuff.