Meeting summary: 13/03/19

## Present during meeting

1. Erik Schaltz (Supervisor)
2. Nicolás Murguizur
3. Nicolai Fransen
4. Estefanía Ruiz
5. Aitor Teran
6. Mihai Rusu
7. Faheem Achmad

## Meeting Agenda

1. Status of control model
2. Testing results with full load
3. Interface PCB
4. Software architecture
5. Others

## Meeting discussion

1. Updates:
   1. Software progress was explained, the team is currently working on the development of different modules.
   2. PCB has been manufactured, it was shown to the supervisor Erik.
   3. The tests on the inverter were shown to the supervisors, it seems like the inverter is not overheating at all under high currents, however, the team is concerned that this is due to the acrylic screen between the camera and the inverter so further tests will be performed.
   4. The simulation of the control was also shown to the supervisor, it is showing some problems under high speed and high torque requirements, control must be tuned to achieve better results. However, the work is promising and showing good results.
2. Discussion.
3. It was agreed that the testing of the control in the D-Space lab will not be performed because the human and time resources are too big for the output it might give.
4. The inverter tests require thicker cables since the current ones seem to be overheating. We will be letting Mads know to see if he can provide better ones.
5. Tasks for the next sprint
6. The final manufacture and testing of the interface PCB. This is important for the testing of the software.
7. Software should show major progress, including GUI.
8. The control must be optimized and discretize before during the sprint.
9. Batteries will be modelled.
10. Research in regenerative braking should be performed and the decision made about whether or not to implement this feature.
11. Others
    1. Go-kart will be taken out of the lab during some days but it is important to have it back as soon as possible for mechanical inspection and fixing of it’s parts.