

Software Progress Report Week 6

Kimberley Hayward

- Found a relationship between the p_constant and speed, that every time the speed is increased by half the p_constant needs to double. Eg when speed is increased from 40 to 60 means the p_constant needs to increase from 0.0015 to 0.003.
- With the added weight of the case and eyes the speed needed to be increased to 60 otherwise it was not fast enough to be able to move.
- One problem we encountered was that over time the battery would discharge and therefore lose power. As a result our robot would slow down and our p_constant values would need to be changed to account for this which made it hard for us to write and test code for the third quadrant.
- On the day of testing our code was found to be corrupted and therefore no longer worked. We had to instead use an old version of the code which meant our robot was only able to get to 45%.