

Group 6 - Milestone 3

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1 Your Contribution to the Group

I worked on vision for Milestone 3 throughout this week. The main challenge was tracking the dot on the robots in order to detect the direction they face. I tried various methods before settling on the current one which works in most cases. I also built on the interface between vision and the rest of the system. This abstracts the information about the world so the AI methods can access it without reference to the vision system. I also helped with last minute testing on Wednesday morning.

2 High Points of Your Contribution

- Tracking the dots on the robots with reasonably high accuracy.
- Improving the interface to vision.
- Reducing the noise on the vision system. Erratic values are handled in a more sophisticated way.

3 Points Awarded to Each Member (out of 5)

- | | |
|-----------------------------|--------------------|
| • Peter Macgregor - 4 | • Peak Limpiti - 3 |
| • Patricia Dragan - 2.5 | • Zhang Chen - 3.5 |
| • Egidijus Skinkys - 3.5 | • Aris Tsialos - 4 |
| • Andrew Leith - 3.5 | • Kuba Kaszyk - 4 |
| • Nursultan Askarbekuly - 3 | |

4 Additional Information

My plans for the future: improve the dot tracking algorithm so that it is more reliable, add GUI for changing camera settings and threshold values, improve blue robot tracking, add implementation for tracking opponents robots.

These tasks should be shared out between Patricia and myself.