SYSTEM DESIGN PROJECT 2012

MILESTONE 1 INDIVIDUAL REPORT

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Group Contribution

My contribution to the group for this milestone was firstly taking part in deciding what the components of the project will be and how they will communicate with each other. After that I started working on the Navigation System which will drive the robot's motors. I also took part in making the communication system run on the DICE machines

High points for the contribution

- Writing a preliminary motor control system to drive a two-wheeled robot.
- Writing a very basic Omniwheel control system for our future design of the robot.
- Helping with the Communications module.

Points earned and justification

In my opinion the points I have earned for this milestone would be somewhere between a 3 and a 4 but leaning more to 3 because I could have worked a bit more on the navigation system. Although I was reluctant to commit to the two-wheeled robot we have at the moment because the design will most likely change for future milestones. Also if we can get the omniwheels to function properly this will in my opinion give us an advantage over other teams. I would also like to suggest giving Pavel Abrosimov a 5 point mark because I feel that he has done quite a bit more work than was expected of him. He created the GUI for our project and then helped team members in integrated their programs with that GUI. Even more he created a socket server and client to connect the C code (GUI/AI/Navigation) to the Java code (Communications). I would also like to suggest that Ian Neil Johnston deserves a 5 or at least a 4 because he has been very passionate with robot construction. He went through several designs for the robots and has spent in my opinion an astounding amount of hours trying to make the robot to go in a straight line and also came up with an ingenious way to increase the kicker speed of our robot.