

Team 1

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**Project 1:  
Milestone Timeline and Fallback Plan**

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## Timeline with Milestones

The 6 milestones in table 1 are based on the tasks discussed in the team organization and task allocation document. The dates listed with the milestones are not concrete. For instance, one may be working on the documentation throughout the entire project. The dates are used to keep all of the team members on task. If one of the completion dates is not met the appropriate plan will take effect.

**Table 1**

Milestone	Proposed start date	Proposed completion date
1.Team Organization & Timeline	01-27-04	01-29-04
2.Robot Design/Implementation	01-29-04	02-04-04
3.Code Design	01-29-04	02-04-04
4.Code Implementation	02-04-04	02-08-04
5.Robot Testing	02-08-04	02-12-04
6.Documentation	01-29-04	02-15-04

The first milestone is the team organization and timeline. This is listed as the first milestone because it is the first part of the project due. The proposed completion date marks the day before this assignment is due.

The second milestone, robot design/implementation, started on Jan 29, 2004. The group met with the LEGO kit and with the help of Martin's "Robotic Explorations" started designing the robot. It is proposed that the group completes the design and implementation by Feb 4, 2004. Spending a week designing the robot may be needed due to the lack of experience. We may find that a week is not needed; in this case we may begin some of the later tasks before the proposed start date.

From Jan 29 through Feb 04, 2004, the group will work on code design. During this time, we will study the Martin book in order to get familiar with programming interactive C. Much like with the robot design/implementation, a week may not be needed but it is hard to know.

The fourth milestone in this project is code implementation. On completion of the code implementation, all parts of the design will have been implemented correctly. The completed code will be reviewed and documented by all of the group members. The code should be completed on Feb 8, 2004.

The fifth milestone is robot testing. After all of the code has been written and downloaded to the robot, the group will create a testing environment and test the robot. The testing is very important in ensuring the correctness of the robot. Since the robots will be demonstrated in class on Feb 13, the robot testing should be completely finished on Feb 12.

The final milestone, documentation, will be taking place throughout the entire project. Jeremy will be making notes about the entire project in order to provide accurate accounts of how the project worked. The documentation is to be completed on Feb 15, 2004.

This timeline is not set in stone. The dates are just estimates of how long each part should take. Again, because of our lack of experience, some of the milestones may take longer. If in any case a date cannot be met, the fallback plan is to be used.

## Fallback Plan

The fallback plan is used if a date from the milestone timeline cannot be met. Three of the six milestones are covered in the fallback plan. The three milestones that are not covered in the fallback plan are to be completed the day before they are due. If these milestones are not completed by the date in the timeline then there is no more time to use a fallback plan.

If the robot design/implementation cannot be completed by Feb 4, 2004, the fallback plan is as follows:

### Fallback for robot design/implementation:

Milestone	Fallback start date	Fallback completion date
Robot design/implementation	01-29-04	02-06-04
Code design	01-29-04	02-06-04
Code Implementation	02-06-04	02-09-04
Robot testing	02-09-04	02-12-04

If the code design cannot be completed by Feb 4, 2004, the fallback plan is as follows:

### Fallback for code design:

Milestone	Fallback start date	Fallback completion date
Code design	01-29-04	02-06-04
Code Implementation	02-06-04	02-09-04
Robot testing	02-09-04	02-12-04

If the code implementation cannot be complete by Feb 08, 2004, the fallback plan is as follows:

### Fallback for code implementation

Milestone	Fallback start date	Fallback completion date
Code Implementation	02-04-04	02-10-04
Robot testing	02-10-04	02-12-04

These three fallback plans should assist us to stay on track if one milestone takes longer than expected.