

Group 2

Timeline With Milestones

Milestone Table

Project 2 will consist of the following major tasks that will be allocated equally between both of our team members. Each milestone is listed and described in more detail below this table.

Milestone	Start Date	End Date	Team Member	Fallback Plan
<i>Brain storming Session-</i> Figure out how to approach the problem and which hardware components to use	March 1, 2003	March 1,2003	Josh Shuller & Amandeep Gill	Finished on time
<i>Prototype model of robot</i> Have a built model of robot Ready to begin testing.	March 6, 2003	March 8, 2003	Amandeep Gill	Josh will assist if not completed on time.
<i>Program prototype model</i> -Have a working program on prototype model	March 9, 2003	March 12, 2003	Joshua Shuller	Amandeep Gill will help Josh to complete task.
<i>Testing</i> -Test the prototype model, repeat construction and programming stages as necessary.	March 14,2003	March 16, 2003	Joshua Shuller & Amandeep Gill	Allocate more days for testing.
<i>Finalization-</i> Make constructional touchups.	March 18, 2003	March 19, 2003	Amandeep Gill	Josh will provide help if something got delayed.
<i>Class Demonstration</i>	March 27, 2003	March 27, 2003	Joshua Shuller & Amandeep Gill	Batteries of handy board will be left for charging the entire night before demonstration.
<i>Presentation</i> - PowerPoint slides and presentation material	March 27, 2003	March 28, 2003	Amandeep Gill & Joshua Shuller will present.	
<i>Final report</i> -Information collection & documentation	March 1, 2003	March 27, 2003	Both members will continuously be documenting their individual tasks and will update the other member at meetings	Frequent exchange of notes to keep each other informed of current progress.
-Rough Draft	March 28, 2003	March 29, 2003	Amandeep Gill	- Josh will complete the task if delays occur

Milestone Details:

- **Brainstorming Session:**
This will be the first step to start the project. This is important because only two members are working and it is important to share each other's views of how we are going to approach the problem. Both team members will sit together to decide what will be the key features of the robot design, how will it work, and which sensors to use so that robot should be designed accordingly and hopefully correctly implemented.
- **Prototype Robot Design & Construction:**
A prototype model of the robot will be built without strengthening Lego components so that it can be easily disassembled and rebuilt during the testing phase.
- **Programming:**
The initial programming structure will be completed to test the prototype robot model and will be further reworked according to the problems seen while testing.
- **Testing:**
This will be the most important task, which is basically testing how the prototype robot reacts to its environment when the robot hardware and programming code are integrated to work as one. This is a continuous loop task in which the prototype model and programming code will be modified frequently until the final results are established. This task will not be considered complete until the final design works in the actual target conditions.
- **Finished Robot:**
After it is established that the program code and prototype model are responding the way they should, the final task is to make the robot structure robust enough so that it will not fall apart during demonstration or while retesting.
- **Documentation, Written Report and Presentation:**
Both team members will take notes during meetings and while completing their individual tasks so that the report writing work will not left until the last moment to be completed and so that time can be used effectively preparing for presentation.
- **Fallback Plan:**
In project 2 only two members of our team will be able to participate, therefore there is very little room for any fallback. To overcome this situation we have started early and will try to finish all the important tasks at least week before the scheduled demonstration day so that if any thing goes wrong the other member will have enough time to complete the task.