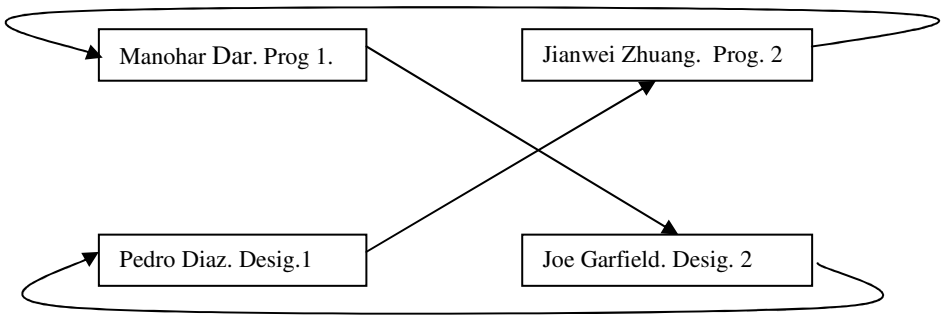
Team 6
Manohar Darapureddi.
Pedro Diaz
Joe Garfield
Jianwei Zhuang

Project 3
Team Organization and Task Allocation Proposal

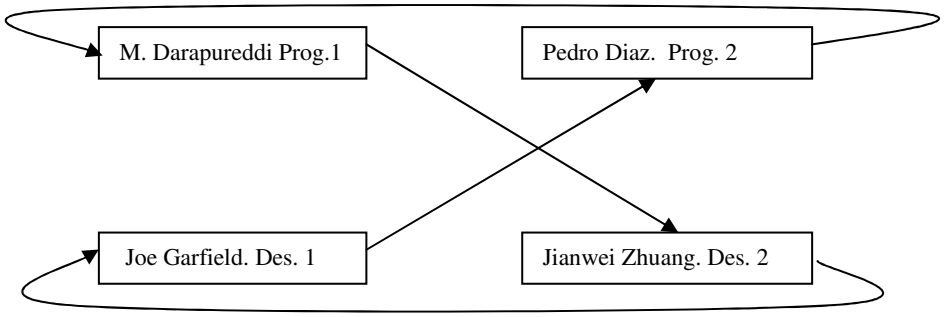
Team Organization:

Based in the proposal presented in first project, we will switch roles between all group members. Because we will only have three projects, the following task allocation also based on the negotiation and preference of group members.

The organization in Project 2 was:



According to the switching rule in last project, the organization for Project 3 will be:



1. Software subgroup

The leader will be Manohar. Manohar will stay in software group for this project and be the leader. Pedro will be in the same subgroup and support Manohar. Software subgroup will be responsible for designing, developing, integrating, testing, and documenting the whole system.

2. Hardware subgroup

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The leader will be Joe. He had the experience in hardware design in Project 2. He is going to have support from Jianwei. This subgroup will be responsible for designing, constructing, testing, and documenting the hardware, and working with the software subgroup in the integration and testing of the system.

3. Leader of the project

According to the rule in project 2, the leader of the software subgroup will be the leader of the whole project. He will also do the presentation and have the final decision for the whole project.

4. Documentation coordinator

Also from the rule in last project, Jianwei will be the documentation coordinator. He will prepare Team Organization and Task Allocation, Timeline and Milestones, and Organization Evaluation and Plans, and communicate and coordinate with members concerning meetings.

Fallback Plan

Since we have two subgroups from the project, if the leader of the subgroup is not able to complete this job, the other member will replace him and take over the job. If the software subgroup is not able to do its job, hardware subgroup will take over the job. With this operation, we will be capable of making sure the completion of the project. In addition, during the integration part, all members will get involved. Every member will be able to complete the job if anything unexpected happened.

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Project 3
Timeline and Milestones

Project design

The first meeting (3:30pm @ Apr 12th, Saturday) will allocate basic tasks to subgroups and members, brainstorm the design of the project, and discuss any initial testing for those options:

- Initial project model to complete the project
- Mathematics and/or calculation needed for the project
- What kind of robot will be built in the project?
- How many and what sensors/motors/encoders/etc. will be used, for what usages, and where will they be mounted on the robots?
- Clarify the assignments of each member.

First Milestone.
Hardware design will be done by Apr 16th and hand over to the software subgroup for testing.

Second Milestone.
Software design will be done by Apr 20th and start testing in real arena.

Third Milestone.
Successful Testing will be done by Apr 24th.

Co-ordination and communication

- Each member will show or report what he has done according to jobs allocated in last meeting, including whether he has completed his parts or not, and, if not, why and how he will solve them completely to guarantee progress of the project.
- Member must inform the team at least 24 hours before the assigned due date if he is not able to complete his assignments so the team can assign the job to other member

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Project 3 Timeline

Project Start Date: Wed 04/12/03
Project Finish Date: Fri 05/02/03

Time	**Tasks**	**People**
Apr 12th	First Meeting ● Project design	Group
Apr 16th	Second meeting ● Hardware complete initial design ● Software complete initial testing and calibration	Group
Apr 18th	Third meeting ● Software complete robot testing and changes in hardware design	Group
Apr 20th	Fourth meeting ● Software complete coding ● Hardware complete hardware changes	Group
Apr 21st – Apr 24th	Project testing and debugging	Group, mainly software subgroup
Apr 25th	First demo ● Any improvement and changes concerning software and hardware	Group
Apr 27th	Fifth meeting ● Software complete improvements ● Hardware complete improvements	Group
Apr 28th	Second demo	Group
May 2nd	Presentation	Manohar