



2.017 Design of Electromechanical Robotic Systems, Fall 2009

Project Proposal Guidelines

Proposal due date: 9/28/09

- We expect a 2 – 5 page project proposal from each team, including figures, sketches, and hand-written notes.
- Use 11 or 12 pt font size and single-spacing.
- First page should include:
 - Title
 - Team Members
 - Date
 - Class
- Number each page.
- The proposal should include the following sections:
 - Objective
 - Briefly state the objective of your project. What is the purpose of this project?
 - Project Description / Proposed Approach
 - Describe some background information on the project and explain why it is useful.
 - What specifically you are trying to achieve?
 - Describe the high level functional requirements that you identified for your vehicle, based on the objective.
 - Preliminary design or functional block diagram.
 - Project Plan
 - Provide a list of tasks and the people responsible for each task. Try to be as specific as you can for now. Tasks are laid out to be incrementally achieved. How will you implement the tasks and how will you measure success in each task?
 - Be sure to include in your plan a strategy for understanding and reporting the dynamic behavior of the system, using LTI modeling.
 - Provide a list of required equipment , sensors, components, parts, etc.
 - What resources do you need beyond equipment, e.g., special instruction or knowledge, etc.
 - List of potential risks and the steps you will take to minimize the risks?
 - Backup plan in case of catastrophic failure.
 - Schedule.

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