Design Contest
ME72 Engineering Design Laboratory
Fall Term, 1999
3 Alternatives Assignment
Mockup Assignment
Assigned: Thur 7-Oct
Due: Bring with you to the Design Review on Thur 14-Oct

• Describe in sketches and words three (3) different design alternatives for the design contest. In each case this should reflect your portion of your team’s design task. The alternatives should be significantly different in the way that each accomplishes its tasks, as opposed to different in details alone. Each description should be 1 to 2 pages long. The idea is to communicate your ideas clearly:
  – How will the device work?
  – How will it interact with your team-mate’s device?
  – How will it be built?

Include a list of pro’s and con’s for each alternative.

• Describe how each of the 3 alternatives will meet the Functional Requirements and Constraints that you developed earlier.

• Build one (1) full-size mockup of one design alternative (out of cardboard, paper, tape, drinking-straws, etc.). Show how you and your team-mate’s mockups would be able to fit together to meet the size constraint. This can also be a (3-D) CAD system “mockup”, if you prefer.