FINAL DESIGN GUIDE

Final Design for will consist of two portions:
1. If not using a PowerPoint, a presentation that you can give as a handout (separate from the leaders’ packet) to everyone to help you convey pertinent information, but please keep it limited to 3 pages.
2. A separate packet that you will hand in to the leaders and post electronically at the end of your presentation (following the guidelines below).

Presentation:
- Bring 4 double-sided copies
  - One for you to present from, three copies for the leaders
  - No more than 3 pages of handouts for presentation
- Talk about your design:
  - How does your design help us succeed, i.e. what requirements does it fulfill and what are the significant interactions with other systems
    - Specifications of your system
    - How does your design help us succeed
      - Points analysis (cost, weight, power vs points)
        - Quantize the benefits vs. the drawbacks of your design in terms of the competition point system.
      - In-depth tradeoff analysis
        - What tests have you done, what tests do you plan to do
        - Potential failures/risks and their consequences
        - What are the other parts that your design interacts with?
          - Describe the specifics of the interaction for each interaction.
- Risk Analysis of Risk and Opportunity the chosen design will offer (please see the two tables at the end of this checklist)

Separate Packet to turn in (use this as a checklist!!!!):
3. Bring 2 double-sided copies for the leaders
4. Acquisition plan for EVERY component of system:
   - Detailed, properly dimensioned CAD drawing for all manufactured parts
   - List of parts needed and part numbers
5. Data for competition design event:
   - Graphs
   - Calculations
   - Specifications
6. Manufacturing Plan
   - Detailed manufacturing timeline.
   - All processes and how much time they take (man-hours):
   - Deadlines for each step of the process
   - Remember that manpower will be reallocated to assist manufacturing-heavy subteams
7. Assembly Plan
   - How will you fit the part to the final product, is the assembly order important?
   - How will you remove the part from the final product if it needs to be serviced or replaced?
   - All parts should be in place a few days before set team deadlines
8. Sponsorship Information
   - Parts received and approximate value
   - Company contact info