Final Project Grading Rubric
Spring 2008

Team: ___________________________

Problem Definition (30 points) 
Needs description is clear with sufficient contextual information
Stakeholder list is complete, with roles and needs identified
User needs analysis based on first-hand information and adequately synthesized
Research into existing solutions is thorough
Project Goals clearly stated
Objectives tree is complete and without logical inconsistencies
Constraints identified are appropriate and sufficient

Functional Analysis (25 points) 
“Black box” model is complete and representative
Functional specifications are quantified, reasonable and complete
Design metrics are appropriate

Concept Development (25 points) 
Conceptual design alternatives display creativity through a suitably broad diversity of approaches
Evaluation criteria are appropriate to design goals and complete
Convergence process proceeded in stages, with decisions based on adequate knowledge and ideas developed iteratively

System Architecture (20 points) 
System architecture plan
Subsystem interfaces designed in detail
Interfaces with surrounding environment thoroughly considered
User interfaces planned out in depth

Project Planning (25 points) 
Risk analysis and mitigation strategy
Work breakdown structure
Responsibility matrix
Project schedule: planned versus actual
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Detailed Design (25 points)  
- Layout drawing  
- Bill of materials  
- Detailed part drawings, schematics, computer code, etc.  
- Purchased component specifications

Analysis and Testing (30 points)  
- Engineering analysis is accurate, reasonable and relates results to project objectives  
- Model exists and tests a central design concern  
- Test protocol for model is complete, and results related to project objectives  
- Cost analysis is comprehensive and accurate

Design Fair (20 points)  
- Poster  
- Team presentation

Project Assignment Grades  
\[ \Sigma(+1's) + \Sigma(-1's) = \text{_____} \times 2 = \text{_____} \]

TOTAL SCORE (200 points)  
\[ \text{_____} \]