## 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	

## Spring 2008 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

 $\Sigma(+1's) + \Sigma(-1's) =$ \_\_\_\_\_ x 2 =

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Team presentation

Project Assignment Grades

TOTAL SCORE (200 points)