



Week 4 – System Level Design Presentation Planning

P09029

Analyses

- Force analysis of the arm
- Kinematic analysis of arm motion
- Timing of the controls system data acquisition
- Timing of the mechanical delay for the control system

Invitees

- Dr. Lamkin-Kennard (customer and faculty guide)
- Jim Breunig (team lead for last generation)

Expected Benefits

- To make sure we have addressed all of the challenges faced by past teams
- To make sure our analysis and conclusions are congruent with real world experience in this area

Agenda

1. Problem Statement
2. Customer Needs Assessment
3. Engineering Specifications
4. Benchmarking Results
5. Two Quarter Schedule
6. Concepts Development
7. Concept Selections
8. Initial Designs
9. Force Analysis
10. Timing Analysis
11. Updated Design and Schematic