

**UNIVERSITY OF ILLINOIS AT CHICAGO
DEPARTMENT OF MECHANICAL & INDUSTRIAL ENGINEERING
ME/IE396: SENIOR DESIGN**

MEMO 4- INTERIM REPORT SUBMISSION

Aim – Having defined the scope of the project in your proposal, you are expected to present how you develop various design options (could be at the conceptual level) for solving the problem. The design options should utilize a variety of working principles and should be developed sufficiently to convey clearly the main intent and function and should show, as much as is reasonable, responsive to the problem. You are expected to evaluate critically the design options according to the constraints and selection criteria based on your problem statement. A development plan should be articulated for further refining the most promising design option(s) in the next stage.

Format

- Cover Page: title, submitted to, period covered, submitted by
- Abstract (not to exceed one page)
- Table of Contents
- Statement of Need
- Problem Statement
- Detailed examination of design criteria, constraints, and other specifications
- State-of-the-Art Survey
- Alternative Design Options (sketches, drawings, and descriptions)
- Engineering Analysis
- Selection of the Most Promising Design Option(s)
- Future Development Plan
- References
- Appendices (Other Supporting Materials)

All reports are to be produced in a professional style and are to be typewritten. Page numbers are needed for both the main text and appendices. Table and figure numbers are required for all tables and figures.

Remarks – Please keep in mind that the interim report will evolve into the final project report. You can present again the Statement of Need and Problem Statement that were previously included in your proposal, with necessary modifications. However, your grade for the interim report will be largely based on the new developments since the completion of the proposal. You are strongly encouraged to employ the design techniques discussed in class lecture (such as functional analysis, brainstorming techniques, and selection techniques) into your design process.

Deadline – October 17, 2002 (Thursday)