GEORGIA INSTITUTE OF TECHNOLOGY
George W. Woodruff School of Mechanical Engineering
ME 2110 - Creative Decisions and Design
Fall 2018

Concept Evaluation

Written Assignment due in studio Week 10 (22 – 26 October):

This report should focus on your entire system and include the following:

1. Problem definition
2. System description
3. Concept alternatives, your design plus a minimum of 4 concept alternatives (3D computer generated models are required)
4. Concept evaluation method (such as evaluation matrices)
5. Concept selection
6. Preliminary results (such as success rate at accomplishing a given task)

This report should be no longer than 5 pages of text, plus figures, drawings, and tables. A sample layout for the report is given on the following page.

Presentation due in studio Week 10 (22 – 26 October):

Your team will generate a 5.5 minute (maximum length) video that will be shown at the beginning of your studio section to summarize your progress. Present your selected concept, alternative concepts, and concept evaluation methods. Before the video is presented, one team member must give a short (maximum) 1 minute briefing / elevator talk summarizing your video. Specifications and instructions for the video are located on the ME 2110 web site.

ME 2110
Suggested Report Format for the Project Concept Evaluation Report

As you prepare your report, you should first review the available instructions and examples from the lectures and the textbook. Then you should determine which format sections are of most importance in this project report.

For this reporting period, you are asked to describe the system currently under development, to document your concept selection process, and report initial results. Your report should capture your work on this task according to the format outline below:

Abstract

Introduction

Describe the project objective and specific design challenges to be addressed on this project.

Selected System

Present and describe an illustration of the assembled, integrated system that is currently constructed. Discuss its initial performance.

Concept Alternatives

Present and describe alternative concepts that were developed.

Concept Evaluation

Present and describe evaluation methods that were developed and used. Make it clear why you chose your selected system, instead of the alternatives.

Conclusions