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

Planning Report

Written Assignment due in studio Week 9 (15 – 19 October):

This report (one per team) should focus on project planning and initial conceptual design for a complete machine. You should NOT report that you have selected a final design and you should not report on your individual device.

The report should include:

1. Problem definition (House of Quality)
2. Functional requirements / constraints (specification sheet)
3. Function Trees
4. Physical instantiation of functions – morphological chart or solution matrices with many alternatives
5. Three or four management and planning tools (from homeworks)

This report should be no longer than 3 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 9 (15 – 19 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 on project planning, problem understanding, and concept development. 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 Planning 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 plan your project, focusing on your goal of creating a system with complete functionality. This report should capture your work on this task by describing the tools, tables, and charts that you developed, according to the format suggested below:

Abstract

Introduction

Problem Definition: State the project objectives, requirements and challenges.

Discuss your house of quality.

Planning Deliverables

Function Trees: Cite and present the function tree(s)

Functional Requirements: Cite and present the specification sheet

Physical Instantiation of Functions: Cite and present morphological chart or solution matrices with many alternatives

Other Management and Planning Tools: Cite and present other tools as appropriate.

(Following the Style Guide's checklist for speaking to figures, describe each chart or planning tool by using the following steps:

1. *Cite the tool and state its goals and utility;*
2. *State what this team's tool demonstrates about this project;*
3. *Call out and explain three-four specific entries, making points about each.*

Conclusions