

FIRST SEMESTER SENIOR PROJECT

FINAL REPORT GUIDELINES

Each report should contain the following sections, in the order given

TITLE PAGE

Include title of project, names of group members, month and year of report

ABSTRACT

Summarize the entire report in one page. The abstract must be self-contained; there should be no references to figures or tables in the body of the report.

TABLE OF CONTENTS

INTRODUCTION

Describe problem or need and how this project contributes to solving the problem or meeting the need. Identify the customer or sponsor if there is one.

ENGINEERING REQUIREMENTS

Specify the requirements that guided your design. Explain the criteria and constraints, including economic factors. Discuss the research you did to determine this information.

DESCRIPTION OF DEVICE

Use your layout drawing to describe what the device will look like and how it will function. Identify subassemblies. Discuss the uncertainties and limitations of your design.

DESIGN FEATURES

Organize this section by assembly and part. Give the following for each assembly and major part that was designed.

Design Criteria

State the criteria to be met for this part.

Design Analysis

Describe the analysis you did to verify that the part will meet the design criteria.

Design Features

Describe, and illustrate, the part, giving overall dimensions, materials, etc.

Alternatives Considered

Discuss the alternative approaches to meeting the design criteria.

APPENDICES

Include helpful, but non-essential information, for anyone who may be interested in carrying out a similar project. Some ideas:

Catalogs and information sheets

Detailed calculations

Any other useful information, contacts, references, etc.

Assume that the reader is a mechanical engineer with a BS. Do not assume that the reader has a complete set of working drawings.