

EGE 2123 Entrepreneurial Engineering Design Studio
Individual Project Paper

Timetable for Individual Project Paper:

<u>Assignment</u>	<u>Sections</u>	<u>Due Date</u>
Part 1 – first draft (10 pts)	Title, Statement of the Problem, Background, Rationale	9/17
Part 2 – first draft (20 pts)	Development	10/22
Part 3 – first draft (20 pts)	Final Design, Costing Analysis, Testing Procedure and Results	11/26 (M/W) or 11/30 (T/Th)
FINAL PAPER (170 pts)	All previous sections with revisions PLUS Community Impact, Conclusion, and Abstract added as new sections	12/14

Final Individual Project Paper Formatting requirements:

- File format: .pdf
- Columns: Single column throughout the paper
- Font: Times New Roman, Size 12
- Margins: 1 inch all the way around
- Title Page: Include author's name, team name, and a title for your project
- General Style: MLA, APA, or ASME guidelines

Ordered Sections in the Final Paper

Title Page - see above requirements and also include a link to your video from the Expo

Abstract

Statement of the Problem

Background

Rationale

Development

Final Design

Costing Analysis

Testing Procedure and Results

Community Impact

Conclusion

Rubric for Final Draft of IPP (170 points)

Name: _____

<u>Element</u>	<u>Points</u>
Proper formatting	/10
Title Page	/10
Abstract - one well-developed paragraph. An abstract should be able to stand alone using an introduction-body-conclusion structure in which the parts of the report are discussed in order: problem, results, conclusions, impact.	/15
Statement of the Problem - a summary of the problem you are trying to solve	/12
Background - the course & design theme, your customer and his/her main activity, the customer pain, and the processes you used to identify the pain	/12
Rationale - justification that this is a problem worth solving and how it will create value for the customer	/12
Development - the process of gathering customer needs and creating design requirements, ideation activities, concept selection, initial prototyping, refining design requirements and creating target specification that include a measure of productivity	/12
Final Design - discussion and justification of your final Product Architecture and Bill of Materials choices	/12
Costing Analysis - discussion of BOM and target costing and breakeven analyses as well as the potential impact of these results.	/12
Testing Procedure and Results - creating and executing a test plan for your product including a discuss the results of your testing.	/12
Community Impact - discuss how your invention has affected productivity and the benefits it brings to your customer, the non-profit agency, and the community at large.	/15
Conclusion - summarize what you have accomplished this semester and leave the reader with an interesting final impression	/12
Discussion of entrepreneurial mindset development during the design process	/12
Sketches, CAD drawings, tables, photos, etc. are used effectively to support the text	/12

TOTAL SCORE: _____/170_____