Viable Design Report

Use the format below, incorporate all the items listed and label who writes which sections.

- <u>Minimum</u> of 3 full pages of text **per Pair/Trio member**, <u>**not**</u> including the Cover Page, Table of Contents, Reference Page or Appendix A.
- Single-spacing, 1-inch margins all around, 12 font size, Times New Roman
- Double-space between paragraphs – do not indent paragraphs, NO space between any heading and the text. If there are headings, (recommended to break up the content and make it easier for readers to find information) **bold the headings**.
- **APA style in-text citations** and a separate **Reference Page,** with "References" centered at the top.
- Page number at the bottom right of every page

Cover Page:

- EDD 104, Section #, Project # and Name, Viable Design # and Name, Pair/Trio's Names

Table of Contents:

- Use the same font used throughout the report
- Connect the listed items to the page numbers, for example, "Introduction…………..1".

Introduction/Background:

- Introduced the background and motivation for the project. It can be understood by someone with no prior knowledge of the project.

Design Statement:

- Exact Design Statement given in Project Description

Design Focus:

- Show the Evaluation Criteria with assigned weights.

Viable Design Description: (All team members should have at least two areas of research and write their name next to the headings for their sections.)

- Use a functional schematic and other visuals to give a thorough description of the overall design and its main parts/features/functions.
- Highlight what Evaluation Criteria different design parts/features/functions address. Organize by part/feature/function or by Evaluation Criteria.
- Clearly show how you expect your design to meet ALL the requirements. Reference the requirements in Appendix A.
- Refer to requirements, cost analysis and other supporting documents in appendices. Back up your design choices by referencing materials and using in-text citations.

Conclusion:

- Summarize key aspects of the design and relate back to Design Statement.

References: (All team members should indicate the section containing their references.)

- Divide the references into sections based on the team member. **A minimum of two sources per team member.**

Appendices:

- Appendix A: Requirements
  - Requirements Structure
  - Project Requirements List
- Appendix B: Cost Analysis (All team members should write the sections that correspond with their Viable Design Description parts/features and write their name next to the headings for their sections.)
  - Make a convincing case for how much you expect each part/feature to cost based on existing technology/materials etc. For standard parts, you can include links to where you would purchase the parts and how much they cost. For custom parts, estimate the cost based on materials, labor, shipping, etc. Report final cost estimates in the **Viable Design Description** section and refer to this appendix.