**Design Proposal Title: Motorized Drawbridge**

**Course Section Number:** 2

**Team Number:** 204

**Team Name:** Team 204

**Date:** 27/02/2023

**Submitted to:** DRS Cornerstone Limited

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[Insert Student Name and Number]

**Executive Summary**

The problem was creating a bridge that allows vehicles to cross bodies of water while simultaneously letting large cargo ships or other types of large ships to past through the bridge. So we designed a horizontal motorized bridge that will lift the bridge’s platform up a certain angle and up by 12 inches to let any large cargo ships go across the bridge with a flick of a switch. This bridge model with all the bold and fasteners would cost around $().

[Discuss all the major points within your proposal, but only contain a couple of sentences on each point.

* Define the problem. (Creating a Bridge that allows vehicles to cross across water/river while simultaneously letting Large ship cargo or other type of ships to pass through.
* Describe the proposed design and provide a brief description of how it meets the design objectives.(We designed a horizontal motorized bridge that will lift the bridge’s platform up 12 inches to let any large cargo ships to pass through. )
* Include the product cost. ( Including the fasteners and bolts ($141 + ()) )

**Introduction**

[This section should answer the following questions:

* What is the design problem?
* What are the design requirements (functions, objectives, and constraints)?
* What is background information for this design problem and what engineering design solutions already exist? (Cite all sources of information.)

This section should properly cite (in APA format) all references used. These references should be cited within the text, as well as in the list of references at the end of the proposal.]

**Proposed Design**

Diagram

Description automatically generated

(Figure 1.1)This is a sketch of the bridge and how it would look like.

[Describe the proposed design in detail – its features, appearance, functionality (i.e., how the proposed design works), how the design meets the defined requirements (functions, objectives, and constraints), how it meets the outlined needs, the strengths and limitations of the design (and whether the limitations noted are acceptable). The proposal should outline the materials used and construction methods as well. Include a sketch(es) to help illustrate and explain the proposed design and reference the Appendix AutoCAD drawing of your design.]

**Product Cost**

[Describe the cost of the proposed design, including a breakdown of the cost of materials utilized and costs for construction. A table must be included in this section to aid in communicating this information. Citations (in APA format) must be provided for all references used for the cost values.]

**Conclusions and Recommendations**

[Provide valid conclusions about the proposed design that are drawn from the information that has been presented in the proposal. Include recommendations that are appropriate for implementation of your design proposal.]

**References**

[Include all references (properly formatted using APA format) that have been used throughout the proposal. **Failure to cite references** (both within the text and in the Reference list at the end of the proposal) **will result in a mark of zero**.]

**\*\*NOTE: The proposal should not exceed 5 pages in length.\*\***