Lab Report #3:

Cyber Physical Systems Response

**Authors:** Midshipman 3/C **First Last Name** and Midshipman 3/C **First Last Name**   
**Course:** SY202 Cyber Systems Engineering

**Enclosures:** (a)MATLAB Script

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Metric** | **Weight** | **Quality** | | | | | **Max**  **Score** | **Midn**  **Score** |
| **0** | **1** | **2** | **3** | **4** |
| Use of Lab Template | 1 | No |  | Partially |  | Yes | 4 |  |
| Introduction | 1 | Problem, purpose, and objectives are unclear |  | Problem stated but purpose/objectives unclear |  | Well discussed | 4 |  |
| Procedure | 1 | Missing several steps and no mention of used tools |  | Miss some steps and tools |  | Comprehensive yet concise | 4 |  |
| Presentation of Results – First Order System | 2 | Results are not presented or poorly presented, difficult to understand or incorrect |  | Results are partially presented or some are incorrect; missing some asked items like tables and figures |  | Results are well presented, easy to follow, and correct; all required items are included; quantities include units (when known) | 8 |  |
| Discussion of Results – First Order System | 2 | Results are not discussed or poorly discussed |  | Result are discussed, but some important details are missed |  | Results are well discussed, short but cohesive | 8 |  |
| Presentation of Results – Second Order System | 3 | Results are not presented or poorly presented, difficult to understand or incorrect |  | Results are partially presented or some are incorrect; missing some asked items like tables and figures |  | Results are well presented, easy to follow, and correct; all required items are included; quantities include units (when known) | 12 |  |
| Discussion of Results – Second Order System | 3 | Results are not discussed or poorly discussed |  | Result are discussed, but some important details are missed |  | Results are well discussed, short but cohesive | 12 |  |
| Figures/Tables | 2 | Figures and Tables are not correctly labeled or are hard to read |  | Figures and Tables are missing some important features |  | Figures include a descriptive caption, are well identified, and are easy to read | 8 |  |
| Conclusion | 1 | Not included or poorly address summary of results |  | Included but not accurate or vague |  | Included and cohesively addressed the results | 4 |  |
| Enclosures | 1 | None include |  | Some included or incorrect |  | All included and correct | 4 |  |
| Grammar, organization, & Professionalism | 1 | Poor grammar and use of slang |  |  |  | Professional writing | 4 |  |
| **Total Points** | | | | | | | **72** |  |
| **Normalized Report Score = (Total Point /72) x 50** | | | | | | **Letter Grade:** | **50** |  |

Instructions: **ERASE the instructions that are given in red**.

# Introduction

In brief, describe the purpose and objective of the lab. This section should not be more than 2 paragraphs.

# Procedures

Summarize the procedures. This section should not be more than 2-3 paragraphs.

# Results

## Modeling of First Order System

Include the table (or similar table) from HW 03 Problem 4 and the table from Lab 03, Part II, step 10. Do not forget to include captions and units when available or known. Include the figure from step 11 and address the question in step 12. Discuss the results.

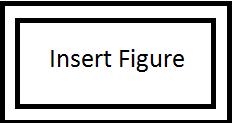


Figure . Include a descriptive Caption.

## Modeling of Second Order System

Include the table Lab 03 Part I and the table from Lab 03, Part II, step 16. Do not forget to include captions and units when available or known. Include the figure from step 17 and address the questions in step 18. Discuss the results.

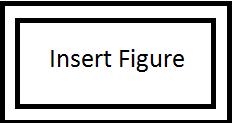


Figure 2. Include a descriptive Caption.

# Conclusions

Summarize the results (trends that you observed, especially as a function of the location of the poles).

# Comments

Include what did you learn and how the lab can be improved.