Course No: MECH 3550 Name:

Section No:

Department of Mechanical Engineering Technology

Lab No.

Title:

FACULTY ONLY

Returned for corrections.........................................................

Corrections due.................................................................... Corrections handed in............................................................

Comments

Grade...................... Approved by.............................

STUDENTS ONLY

Date experiment completed:

Date due

Date handed in

Squad No...................

List

Members .....................................................................

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REPORT FOLDER

NEW YORK CITY

COLLEGE OF TECHNOLOGY

OF THE CITY UNIVERSITY OF NEW YORK

**Purpose:**

Begin to familiarize yourself with MATLAB and Solidworks.  Create a small Matlab File and Solidworks Model.  Try to understand what is necessary for basic simulation modeling, system dynamics, discrete-event simulation, data collection, and analysis.

**Hypothesis:**

I will learn more about the basics of Matlab and Solidworks by completing this Lab Assignment

**Procedure:**

In order to create a Basic Matlab system, I reviewed the OER course by using the link provided under the Matlab tab on the course website. I accessed Matlab by using the Apporto Remote Desktop Access, and I created an example similar to what was shown to us during lecture.

In order to create a Basic Solidworks model, I reviewed some of the videos shown on youtube that instructed me on the basics of Solidworks modeling. I accessed Solidworks using the Apporto Remote Desktop Access. I then created a basic Solidworks model which is shown below.

Data / Observations:

Graphical user interface, application

Description automatically generated

Fig1. Basic Matlab System Input and Output

A screenshot of a computer

Description automatically generated with medium confidence

Fig2. Basic Solidworks Model

Calculations:

There were no calculations necessary for this assignment.

Analysis of Results:

My hypothesis was correct. In other words, I was able to learn more about the basics of Matlab and Solidworks by completing this Lab Assignment

Sources of Error:

I had some trouble with accessing Solidworks and Matlab, but eventually I was able to get access using the Apporto Remote Desktop Access.

Conclusion:

This introductory assignment help me familiarize/refamiliarize myself with the software that we’ll be learning in this course. I was able to complete the assignment of being able to create a basic model in both Matlab and Solidworks. I had a little trouble and spent a little more time on this assignment than I wanted to, but I got a lot out of it. I’m looking forward to the learning more about how to use both Matlab and Solidworks!