Lab Report Format

COVER PAGE

On a separate page include the followings:

- Student full name
- Student ID
- Course and section (e.g. “EE 120A Section 21”)
- Lab title (e.g. “Lab 1 – Xilinx Environment”)
- Lab partner’s full name

OVERVIEW

It should include the followings:

- Overview of what was done
- A brief summary of the results
- Conclusion from the results[1]

NEW CONCEPTS

Define the new concepts[2]

ANALYSIS

It should include the followings:

- Procedure
- Any truth table, K-map, Boolean equation, and FSM used for that lab

[1] For example, a possible overview for lab 1 can be as the following: *In this lab, a familiarization of Xilinx software, including an overview of the FPGA board Spartan 3E, was undertaken in order to prepare for future lab exercises using this learning environment. Gates were successfully represented in Xilinx, shown in a timing diagram, and programmed onto the FPGA board. Xilinx is reinforced as the desired learning environment for this course.*

[2] For example, new concepts for lab 1 are Spartan 3E board, AND/NAND/OR/NOR gates, etc.

RECORDS

It should include the followings:

- Schematics (Note: 1. If there are multiple schematics, order them from the highest level to the lowest 2. Name inputs and outputs appropriately 3. Avoid excessive levels of "rat's nest")
- Simulation
- UCF

Note:

1. Make sure that the elements in your figures are CLEARLY VISIBLE.
2. Label figures appropriately.
3. Using "Print Screen" to capture the screenshot directly is not acceptable. Use the print option (or print preview) to get the figures. "Print Screen" is only allowed when printing is not available and done from the print preview window. Crop the pictures in MS Word properly sizing it.

DISCUSSION

It should include the followings:

- Whether the system works according to provided specifications
- Problems and technical issues encountered, especially those that resulted in system redesign and/or modifications
- Ways to improve the system

CONCLUSION

Explain the purpose of the lab and summarize any results

QUESTIONS

Answer the questions that are asked in the lab manual