Embedded Systems Design Laboratory Report

EECE 4038C, Embedded System Design

Ranga Vemuri

Your design lab report for each experiment should have the title of the design experiment, date on which the experiment was conducted and the name(s) of the student(s), followed by the major sections described below:

1. Objectives and Problem Description

A short word-description of the goals and objectives of the design experiment, of what you are trying to accomplish and observe.

2. Procedure

A step-by-step account of the way you prepared for the experimental setup. This begins with a word-description of the problem or sub-problem and continues with any formal specifications or statements required (such as truth-tables, equations), any theoretical analysis done, description of the design including flow-charts, circuit diagrams if applicable, discussion of the design alternatives considered and trade-offs, experimental setup etc.

3. Expected Results

Describe the expected results precisely and clearly.

4. Experiment and Design Revisions

Describe how the experiment proceeded including any debugging necessary and how it was accomplished. Include a discussion of design revisions and the final design.

5. Observations

Record the actual observations against the expected results.

If appropriate, include photos of your working experiment.

6. Discussion

If the expected results differ from the actual ones, explain why you think it happened so. Explain what you learned from the experiment. Especially include points that may not be

obvious so that others may share the wisdom of your experience, engineering practice, and scientific judgment.

7. Exercises

   Solutions to the exercise problems, if any were given.

Programs:

If any programs were developed, submit them as separate files so that we can compile and run them if necessary. Make sure to include good comments in your program.

Your report and programs should be submitted as a single zip file via blackboard.