**CMPE-250 Assembly and Embedded Programming**

**Laboratory Exercise <Number>**

**<Title>**

By submitting this report, I attest that its contents are wholly my individual writing about this exercise and that they reflect the submitted code. I further acknowledge that permitted collaboration for this exercise consists only of discussions of concepts with course staff and fellow students. Other than code provided by the instructor for this exercise, all code was developed by me.

<Author’s Signature>

Atticus Russell

Performed <Date>

Submitted <Date>

Lab Section 01L6

Instructor: Shaaban

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| TA: |  | Chris Augsburger |
|  |  | Cameron Hudson |
|  |  | Fayez Mehdad |

Lecture Section 02S2

Lecture Instructor: Roy Melton

**Abstract**

[*Verify in the “Lab Report” section of the lab assignment whether this section is required for this exercise*.]

The abstract presents the reader of the report with a brief overview of the lab exercise. By reading the abstract the reader should know what the rest of the report entails—not only what was done, how it was done, and the results, but also the concepts that were explored in the exercise, (e.g., emulator environment, arithmetic instructions, etc.). Note that the abstract is *not simply a copy of the objective(s)* from the lab exercise. The abstract must begin by establishing the scope of the exercise and expressing its purpose in the writer’s own words. It then very briefly summarizes the lab procedure and concludes with a summary of the results. Thus, the abstract is a succinct yet complete summary of the report.

**Design Methodology**

[*Verify in the “Lab Report” section of the lab assignment whether this section is required for this exercise*.]

The design methodology presents much of the *theory* behind the lab exercise, which was incorporated in the program. Figures, equations, and tables are often very effective in this presentation. Any figures or tables should be integrated within the report and must be properly labeled, referenced, and explained in text, (e.g., “the final design of the timer game is depicted in Figure 5”). The design methodology should stand on its own objective technical merit without any reference to class or lab, (e.g., not any of the following: “~~the design methodology was based on the lab exercise,~~” “~~the specifications given by the instructor were followed~~,” etc.).

**Procedure**

[*Verify in the “Lab Report” section of the lab assignment whether this section is required for this exercise*.]

The procedure tells what was done and how it was done in a chronological, narrative style—in contrast to a lab exercise’s procedure section, which is typically written in imperative style, (i.e., list of instructions). The report’s procedure should tell in the writer’s own words what was actually done in lab. From reading the procedure, the reader should be able to perform the exercise to get the same results as the writer presents.

**Results**

[*Verify in the “Lab Report” section of the lab assignment whether this section is required for this exercise*.]

The results section provides the reader with all results that came from completing the lab exercise, (e.g., any register values or memory contents that were generated). For most exercises, the results can be incorporated in a figure from a screen capture or from a log file. As in the rest of the report, every figure, table, etc. must be properly labeled, introduced, and discussed in text.

**Conclusion**

[*Verify in the “Lab Report” section of the lab assignment whether this section is required for this exercise*.]

The conclusion section provides the reader with insights that came from completing the lab exercise. It describes the lessons learned in the exercise and analyzes the results. It also notes and explains any deviations from the assigned procedure. It concludes by describing general concepts applied to achieve the results and by making statements that extend beyond the scope of the exercise to the general case, (e.g., where the concepts or results could be applied outside of the lab exercise).