**Milestone 2: Test Plan**

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SWE-350: Embedded Systems 1

Professor Mark Reha

October 15, 2023

**Alarm Clock**

**Test Designed by: Nibardo Reyes Felix**

**Test Designed Date: October 15, 2023**

**Test Expected by:**

**Test Execution date:**

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| **Test Case#** | **Test Title** | **Test Summary** | **Test Steps** | **Test Data** | **Expected Result** | **Post-Condition** | **Actual Result** | **Status** | **Notes** |
| 1 | LCD screen | Does the lcd screen turn on and display main message | 1. Turn on board. 2. Check if the LCD screen is on and displaying message. | N/A | Lcd will turn on and display the main menu | N/A | Not tested yet | Not Built yet | N/A |
| 2 | 7-Segment Display | Does the 7-Segment display show correct time | 1. Turn on board. 2. Make sure switches are in the correct orientation for a time zone. 3. Check if the 7-segments are displaying the correct time. | N/A | 7-Segment display will turn on and display the correct time zone depending on what switch orientation the board is currently in. | N/A | Not tested yet | Not Built yet | N/A |
| 3 | Switch Orientation | Does changing the orientation of the switches change the time on the 7-segment display | 1. Check to see if the switches are in a correct orientation. 2. Does the 7-segment display show the right time? 3. Change orientation and see if the time changes as well. | N/A | The 7-segment display should show a different time depending on the orientation of these switches. | N/A | Not tested yet | Not Built yet | N/A |
| 4 | Buttons | Does pressing the buttons move menu options | 1. When you press the select button does the board make the selection. 2. If you press a button to go up in a menu, does the menu selection go up. 3. If you press a button to go down in a menu, does the selection go down. | N/A | The buttons should be able to select, move up, or move down depending on what buttons are pressed in what menu. | N/A | Not tested yet | Not Built yet | N/A |
| 5 | Alarm | Do the leds flash when an alarm is going off | 1. When the alarm goes off, do the leds start flashing. 2. If you press the button to stop the alarm do the leds stop flashing. | N/A | The leds should flash when the alarm goes off and should stop flashing when the user presses a button to stop the alarm. | N/A | Not tested yet | Not Built yet | N/A |