ECE 3544: Digital Design I
Project 3B Validation Sheet

GTA Validation Instructions:
Program the FPGA on the DE1-SoC board. When the programming has successfully completed, press and release KEY1 to reset the design. Record the value of the seven-segment displays:

_____
Press KEY1

Set SW[6:0] to 0000000. (The switches are 0 when they are down.) Press and release KEY0. Record the values of the seven-segment displays.

**SW[6:0] = 0000000** _____
Press KEY0

*If the value does not match the last four digits of the student's Student ID Number, stop the validation.*

*DO NOT RESET THE DESIGN.* Set SW[6:4] to 101. Choose a non-zero value for SW[3:0]. Record the value.

_____
SW[3:0] value

Press and release KEY0 five times. After each release, record the value of the seven-segment displays.

| | | | | | |
|---|---|---|---|---|---|
| **SW[6:4] = 101** | _____ | _____ | _____ | _____ | _____ |
| | 1st Press | 2nd Press | 3rd Press | 4th Press | 5th Press |

*Reset the design using KEY1.* Set SW[6:4] to 100. Choose a new non-zero value for SW[3:0]. Record the value.

_____
SW[3:0] value

Press and release KEY0 five times. After each release, record the value of the seven-segment displays.

| | | | | | |
|---|---|---|---|---|---|
| **SW[6:4] = 100** | _____ | _____ | _____ | _____ | _____ |
| | 1st Press | 2nd Press | 3rd Press | 4th Press | 5th Press |

*DO NOT RESET THE DESIGN.* Set SW[6:4] to 111. Press and release KEY0 five times. After each release, record the value of the seven-segment displays.

| | | | | | |
|---|---|---|---|---|---|
| **SW[6:4] = 111** | _____ | _____ | _____ | _____ | _____ |
| | 1st Press | 2nd Press | 3rd Press | 4th Press | 5th Press |

*DO NOT RESET THE DESIGN.* Set SW[6:4] to 110. Press and release KEY0 five times. After each release, record the value of the seven-segment displays.

| | | | | | |
|---|---|---|---|---|---|
| **SW[6:4] = 110** | _____ | _____ | _____ | _____ | _____ |
| | 1st Press | 2nd Press | 3rd Press | 4th Press | 5th Press |

_____ _____
GTA Printed Name GTA Signature

_____
Date and Time of Validation