

FINAL PROJECT DOCUMENTATION:

TOPIC: Electronic Lock

DESCRIPTION:

- A Four Digit code is to be entered using the Slider Switches and the Push Buttons.
- Slide switches 0 through 3 are used to enter a BCD, while the momentary Push Button is used to latch the value on the switches.
- Left Push Button is used to latch D3(L).
- Up Push Button is used to latch D2(U).
- Down Push Button is used to latch D1(D).
- Right Push Button is used to latch D0(R).
- When the entire code has been entered the center push button(C) is pressed.
- When the correct combination is entered and the device is unlocked, the LEDs will flash.
- The seven segment display will read the message "UNLC" to indicate the unlocked state.
- If the code is incorrect, then the seven segment display will read the message "LOC" indicating the locked stage.
- The code is **8513**.
- If the entire code is not entered in 30 seconds, then the lock will go into the "PAUS" state.