

Experiment #2
What's My UIN?

ECE 367
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Schematic:

Attached to End of Report

Program Code:

Attached to End of Report

Logic Diagram:

When the top pushdown button is pressed, the RESET pin is set to ground, and the microcontroller starts from the beginning of the code.

When the bottom pushdown button is pressed, the code will begin to display my UIN on the 10 LED Array, one digit at a time, in ASCII and 4-bit binary

User Manual:

To start the program, press the top pushdown button.

To start the display, press the bottom pushdown button.

Conclusion:

My circuit functions as the experiment specifies. The only problems I had while doing this lab was finding a way to use Index Registers to retrieve data from the lookup table. If I were to do this lab any differently, I would use the 7-segment LED, at least in addition to the 10 LED Array, because the array can be hard to read. Through this lab, I learned how to define constants in my program. I also learned that sometimes it is easier to go without a loop, and that using a variable label to load a register with an index offset causes goofy errors.