CSE 490/590
Summer 2017
Project #1

Due Date

This project must be submitted on *timberlake* by 11:59 PM on Wednesday, June 21, 2017.

Project Description

Design a circuit on the BASYS 3 board that demonstrates that you can enter a number using the slider buttons and push buttons and display that number using the LEDs and seven-segment displays. The procedure is described below.

The slider switches allow the user to enter the binary value of each digit. As a slider switch is moved, the corresponding LED next to the switch should be turned on or off to represent the value on the switch. When the switch is in the 'HIGH' position, the LED should be on. Pressing the center momentary push button should latch the values on the slider switches so the hexadecimal equivalent is displayed on the seven segment display.

Documentation & Submission Requirements

Submit your Verilog source code (*project1.v*) and bit file (*project1.bit*) electronically on *timberlake.cse.buffalo.edu* using the submit command (**submit_cse490 project1.v project1.bit**) or (**submit_cse590 project1.v project1.bit**). If the files were submitted successfully, a message will be displayed confirming successful submission.