

Carlo Provenzani  
CPE325  
Kumar Sharshembiev  
due: 04/27/2018

## Final Project: MSP430 LCD based Alarm Clock

This project is a digital alarm clock based on the MSP430 microcontroller, the program uses the LCD screen to display the current time and the alarm time set by the user. Synchronous serial communication was applied so the user will use the hyperterminal to enter the current time and the time alarm to go off. The buzzer will play a tune at the time at the alarm time. When the alarm goes off the user can either press the SW2 on the MSP430 for the snooze button this will add 10 minutes to the alarm time so the buzzer will replay the tune 10 minutes later, or the user can press the SW1 to stop the alarm. The LCD will show the current time if SW1 and SW2 are not pressed and the alarm time while SW2 pressed.

