**Main Module Pseudocode**

Initialize:

Set pins T0-T7 to be digital outputs for LCD data-bus

Set U0 and U1 to digital outputs for LCD command controls

Setup analog inputs

Setup LCD screen

Setup Xbee comms

Setup timers

Enable interrupts

Start a transmit interval timer

Repeat forever

If the transmit interval timer has expired

Restart the timer

Get the state of the analog inputs

Transmit this data to the DCH

Check for and interpret a new received message