

Lab 5 UART over Bluetooth/I2C

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Lab Description

This exercise was focused on the initialization and capabilities of the OLED I2C 1306 display. A program was built to properly configure the ports on the microcontroller and display text and a graphic.

Code Description

The code configures the ports for the OLED I2C 1306 display and set up the microcontroller to use the enhanced universal serial communication interface B (eUSCI_B) registers which are applicable in I2C. The program allows for communication between the OLED display and the microcontroller. After those were properly initialized, two methods were implemented to assist in the initial display on the OLED display. Once that happens, the OLED display was set to display the three phrases: "Hello World", "How are you?" and "Goodbye." Then a straight line diagonally across the OLED display would appear.