

Self-Study Laboratory Exercise 2

Laboratory Demo: 204:237 (Bentley), Miri: Consult with your lecturer

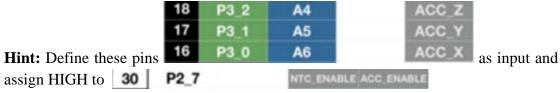
Equipment Required:

- 1 × MSP-EXP430FR5739 Experimenter's Board
- $1 \times PC$ with latest version of Code Compose Studio (CCS) installed

1. Exercise

Study the header file "msp430fr5739.h" and the pin mapping diagram "MSP430FR5739 Pin Map.jpeg". Write code to perform the following tasks

- Initialise on-board LEDS (4) i.e. argument is (LED_PIN_ NO).
- Initialise on-board PUSH BUTTONS (2) i.e. argument is (PUSH_BUTTON_PIN_NO).
- Read PUSH BUTTONS (2).
- Write to LEDS (4).
- Initialise the on-board ACCRELEREOMETER.



- Read from ACCRELEREOMETER.
- Initialise the NTC (negative temperature coefficient thermistor sensor).



- Read NTC (temperature sensor).
- Demo during one of your laboratory session.