

Lecture 13

Intro to Code Composer Studio

Objectives:

- Setup a boiler-plate project to initialize the processor and an infinite loop. Show the pre-defined software structures to map SFRs to variable names.
- Experiment with toggling GPIO pins and timing tasks with NOP loops.
- Introduce interrupts and show code execution (and pin toggling) within a CPU Timer interrupt. Illustrate difficulty in duty cycle control.
- Enable a PWM module and use a timer to gradually vary the duty ratio.

Keywords:

General Purpose IO (GPIO)

No-Operation (NOP)

CPU Timer

Main loop

Setting Up A Code Composer Studio Project