

EE 2920 Week 1 Lab: Tool Setup

1 dedicated lab period, 1 lab period to complete

Name: _____

Objectives

- Basic software setup
- Basic hardware operation

Prelab

student
check off

- Download the Code Composer Studio IDE software
Instructions are available in the file "CC Studio Software Setup"
Note: installation may take some time and must be completed prior to the lab class time!
- Review of the MSP432 (see MSP432 Overview)
- Review of Coding Guidelines (see Coding Guide)
- Review of Debugging (see Debug Guide)

Assignment

Part 1: Create and execute an MSP432 project

Instructions are available in the file "MSP Project Setup"

Part 2: Modify your design

Hook up 3 LEDs in your design. Two of the LEDs must be on the same port, the third LED must be on a separate port. Blink the LEDs in any order you wish.

Part 3: Analysis

Header Files: Our MSP version of blink (blink.c) includes msp432.h. Track down all files that are included as a result of including this file when we "make" our project.

**** Document the file list in your lab report**

Delay Calculation: The default clock rate for the MSP432 Launchpad board is 3MHz. Calculate the expected blink rate for our code. Provide an explanation for the discrepancy. **** Document your blink rate calculations and provide an explanation for the discrepancy in your lab report.**

Check Off

You must demonstrate your working design(s) prior to the end of the lab period

- Demo your MSP432 project 40% _____
- Demo your modified project 40% _____

Lab Report (informal)

- Due at 4:00 pm, 1 day after lab – in the box outside my office
- Include this cover sheet
- Include a properly documented informal lab report. 20% _____