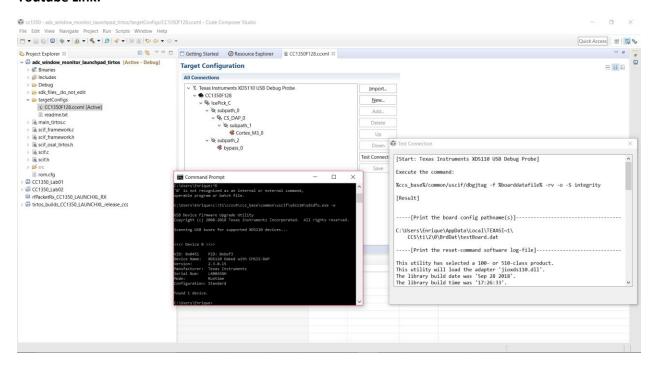
CC1350 Lab04

https://github.com/enri10

## Lab04 Task1 : Set up Project in SCS

Youtube Link: -----



Lab04 Task2: Download and Debug with CCS

Youtube Link: https://youtu.be/SNRNJAyuyEQ

cc1350 - adc window monitor launchpad tirtos/main tirtos.c - Code Composer Studio File Edit View Project Tools Run Scripts Window Help

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Quick Access

```
void scCtrlReadyCallback(void) {
} // scCtrlReadyCallback
void scTaskAlertCallback(void) {
    // Wake up the OS task
    Semaphore post(Semaphore handle(&semScTaskAlert));
} // scTaskAlertCallback
PIN_Config pLedPinTable[] = {
    Board_GLED | PIN_GPIO_OUTPUT_EN | PIN_GPIO_LOW | PIN_PUSHPULL | PIN_DRVSTR_MAX,
    Board_RLED | PIN_GPIO_OUTPUT_EN | PIN_GPIO_LOW | PIN_PUSHPULL | PIN_DRVSTR_MAX,
    PIN TERMINATE
PIN State ledPinState;
void taskFxn(UArg a0, UArg a1) {
    PIN Handle hLedPins;
    // Enable LED pins
    hLedPins = PIN open(&ledPinState, pLedPinTable);
    // Initialize the Sensor Controller
    scifOsalInit();
    scifOsalRegisterCtrlReadyCallback(scCtrlReadyCallback);
    scifOsalRegisterTaskAlertCallback(scTaskAlertCallback);
    scifInit(&scifDriverSetup);
    scifStartRtcTicksNow(0x00010000 / 8);
    // Configure and start the Sensor Controller's ADC window monitor task (not to be
confused with OS tasks)
    scifTaskData.adcWindowMonitor.cfg.adcWindowHigh = 800;
    scifTaskData.adcWindowMonitor.cfg.adcWindowLow = 400;
    scifStartTasksNbl(BV(SCIF ADC WINDOW MONITOR TASK ID));
    // Main loop
    while (1) {
        // Wait for an ALERT callback
        Semaphore_pend(Semaphore_handle(&semScTaskAlert), BIOS_WAIT_FOREVER);
        // Clear the ALERT interrupt source
        scifClearAlertIntSource();
```

```
// Indicate on LEDs whether the current ADC value is high and/or low
        if (scifTaskData.adcWindowMonitor.output.bvWindowState &
SCIF ADC WINDOW MONITOR BV ADC WINDOW LOW) {
            PIN_setOutputValue(hLedPins, Board_GLED, 1);
        } else {
            PIN_setOutputValue(hLedPins, Board_GLED, 0);
        if (scifTaskData.adcWindowMonitor.output.bvWindowState &
SCIF ADC WINDOW MONITOR BV ADC WINDOW HIGH) {
            PIN setOutputValue(hLedPins, Board RLED, 1);
        } else {
            PIN_setOutputValue(hLedPins, Board_RLED, 0);
        }
        // Acknowledge the alert event
        scifAckAlertEvents();
    }
} // taskFxn
int main(void) {
    Task_Params taskParams;
    // Initialize the board
    Board initGeneral();
#ifdef Board shutDownExtFlash
    Board shutDownExtFlash();
#endif
    // Configure the OS task
    Task_Params_init(&taskParams);
    taskParams.stack = myTaskStack;
    taskParams.stackSize = sizeof(myTaskStack);
    taskParams.priority = 3;
    Task_construct(&myTask, taskFxn, &taskParams, NULL);
    // Create the semaphore used to wait for Sensor Controller ALERT events
    Semaphore_Params semParams;
    Semaphore_Params_init(&semParams);
    semParams.mode = Semaphore_Mode_BINARY;
    Semaphore construct(&semScTaskAlert, 0, &semParams);
    // Start TI-RTOS
    BIOS_start();
    return 0;
} // main
```

Lab04 Task3: Download and Debug with SCS

Youtube Link: -----

