

## **Microcontrollers**

### *Lab Assignment*

- zip file from subject website includes source codes in folder "mc\_test"
- you should study those source codes written for microcontroller MSP430G2231 and write a comments for that code
- also you should find and correct several errors in those codes
- the corrected codes with your comments should be compiled and the project outputs can be sent to lecturer by email

You will need install Code Composer Studio version 4 which can be freely downloaded from [http://processors.wiki.ti.com/index.php/Code\\_Composer\\_Studio\\_v4#Downloads](http://processors.wiki.ti.com/index.php/Code_Composer_Studio_v4#Downloads).

There are two CCS versions that can be downloaded, DVD and Microcontroller Core. Please, download a Microcontroller Core version. This version is smaller and still appropriate for our purposes.

You can find a lot of usefull information at [www.ti.com/launchpadwiki](http://www.ti.com/launchpadwiki).

A very easy guide for CCS v4 installation procedure and first project example can be found at <http://processors.wiki.ti.com/images/f/f7/LaunchPadSimpleProject.pdf>. This pdf is also includes in the attached zip file.

The zip file also includes following files:

msp430g2231.pdf - datasheet of selected microcontroller

slau144f.pdf - msp430x2xx comprehensive family user's guide

Note that source codes was written for MSP430 LaunchPad Development Board ([www.ti.com/launchpadwiki](http://www.ti.com/launchpadwiki)) but there is no necessity to own one to complete your task.