Instructions for Getting Started with the F28335 Digital Signal Processor:

1) Do not touch the hardware yet.
2) Insert the CD containing Code Composer Studio DSK v3.3 IDE into your CD/ROM drive.
3) Click on ‘INSTALL PRODUCTS’
4) Click on ‘CODE COMPOSER STUDIO v3.3’
5) Follow the series of setup steps. Your computer will need to meet certain system requirements for the operating system, the version of Internet Explorer, and the amount of RAM. Note that you will need to have almost 1GB of disk space available for the CCS software to install.
6) Perform a ‘Typical Install’. It should take about 15 minutes to install the software, with the result of “Code Composer Studio v3.3 has been successfully installed”.
7) Click on the Finish button. You may then launch your web browser to complete a survey, if you are connected to the internet. In any event, go back to the CD, where you should see, under ‘INSTALL PRODUCTS’, ‘eZdsp28335 Drivers and Target Content’. Click on that button, and install the software. Again perform a ‘Typical’ installation.
8) Once the previous step is complete, you can go back to the main menu using the ‘MAIN MENU’ button in the bottom right hand corner. Click on the ‘EXIT’ button, but do not remove the CD from the CD/ROM drive. You should now see on your desktop three new icons related to the Code Composer Studio (hereafter referred to simply as CCS) software.
9) Open the file ‘Setup CCStudio v3.3’. You will get a screen with two main columns. The left hand column has a heading of ‘System Configuration’, and you will see ‘My System’ below it. The next column over has a heading of ‘Available Factory Boards’, and underneath are a number of boards and simulators. There may also be a third column called ‘My System’, which is empty.
10) Find the ‘F28335 eZdsp’ among the list of Available Factory Boards, and drag and drop it into the System Configuration column. This is the board you will be working with.
11) Press the ‘Save and Quit’ button in the bottom left hand corner of this screen. You will be asked whether to start CCS when you exit. Say no. If the hardware were connected to the computer, you could say yes.
12) Now connect up the hardware to the computer. First, connect power to the F28335 eZdsp (hereafter referred to simply as the DSP) board. NOTE: ALWAYS PROVIDE POWER TO THE BOARD FIRST, AND REMOVE POWER TO THE BOARD LAST! You will be less likely to ruin the board if the board is properly powered up before being (and while) connected to the computer.
13) Connect one end of the USB cable to the USB port on your computer. Connect the other end of the USB cable to the DSP board. You should get a ‘Found New Hardware’ message on your computer, and a request to install software. Since your CD is still in the CD/ROM drive, click on the button ‘Install the software automatically’ and then click on the ‘Next’ button. The wizard will search and install some more software. When it is done, click the ‘Finish’ button. You can then remove the CD from the CD/ROM drive.
14) Double click on the ‘F28335 eZdsp CCStudio v3.3’ icon. If all goes well, you will get a screen with a two main areas. The left area has a directory of folders (e.g., ‘GEL files’). This is referred to as the ‘Project View Window’. The bigger area (the ‘Source Code Window’) is blank. Under the Debug heading, click on ‘Connect’. This will allow the software to ‘see’ the hardware. The screen should now show four different areas, and you should see some assembly language code show up in the Source Code Window.
15) Under the Project heading, click on ‘Open’. Go to the following location:
   
   C:\CCStudio_v3.3\boards\28335eZdspUSB\28335eZdspUSBDiags\Target\28335eZdspUSBTest

   Click on the file ‘28335eZdspUSBTest.pjt and click on the ‘Open’ button. You should see a folder with that name appear in the Project View Window. Click on the + sign to see some of the files involved. There will be a lot of header files (files with a .h extension) in the subdirectory ‘Include’, and there will be 10 files in the ‘Source’ subdirectory.

16) Under the Option heading, click on ‘Customize’. Under the heading Program/Project/CIO, check the box titled ‘Load Program After Build’. Click on the ‘Apply’ and ‘OK’ buttons.

17) Under the Project heading, click on ‘Rebuild All’. You should see the informational window in the bottom left cycle through some of the files, and link the code together. You will get a warning, but that can be ignored.

18) Under the Debug heading, click on ‘Go Main’. Now you will need to look at the DSP board. There is an LED called DS2 near one of the 9-pin connectors. You will want to watch this diode. Under the Debug heading, click on ‘Run’. If the diode flashes on and off 5 times, then you have successfully installed your software and hardware.

19) Remember when you shut down CCS and disconnect the DSP board, you should not remove power from the DSP board until it is fully disconnected from the computer. Power should be applied first to the DSP board, and removed last from the DSP board.