**Installing the Atmel Studio/Arduino IDE**

instructions are on this link

<http://www.visualmicro.com/page/User-Guide.aspx?doc=Getting-started.html>

I recommend using Atmel Studio instead of Visual Studio

When everything is installed open Atmel Studio  and select 'Arduino Uno' as the board (the Redboard and the Uno are nearly the same).

You will most likely experience a problem when you try to first upload to the board. This is because the usb to serial drivers need to be installed. The drivers create a virtual serial (COM) port using the USB port. When Windows cannot find the driver after it searches open the device manager and right click on the USB device with a warning sign on it, it will say something like USB UART. Choose 'update driver' and select to install from a location on the computer (C:\Program Files\Arduino\Drivers). If it can't find it then download the drivers from <http://www.ftdichip.com/Drivers/D2XX.htm> choose the windows drivers, then open the device manager and try it again.You will most likely have to update the drivers for another device after the UART drivers are updated using the same procedure.

After the drivers are updated and installed select the 'COM' dropdown in Atmel Studio and select the COM port which corresponds to your USB virtual COM port (usually the last one in the list). Then try uploading again.