Below are the instructions for:

- Installing Microsoft Visual Studio 2010 C++ with 64-bit SDK needed to build the executable to run on the target host running the Pico M5xx board.
- Configuring a newly exported Visual Studio project

Note: The user running the resulting executable MUST have *admin privileges* to communicate correctly with the PCIe driver in order to load and reset the Pico card. This may be done by launching a 'cmd' shell run as administrator under Window 7 or by re-enabling and logging in the 'Administrator' user as described by the following link:

http://www.howtogeek.com/howto/windows-vista/enable-the-hidden-administrator-account-on-windows-vista/

Instructions to install the 2 Microsoft products:

1. Visual Studio C++ 2010 Express
   Download from:
   http://www.microsoft.com/visualstudio/en-us/products/2010-editions/express
   Pick the first one listed: Visual C++ 2010 Express: vc_web.exe
   Run or save and then run the installer.
   When the option is given, SQL Server is optional.

2. Windows 7 SDK 7.1
   Download the installer or installation ISO:
   a. Web installer which will download necessary components:
   http://www.microsoft.com/en-us/download/details.aspx?displaylang=en&id=8279
   winsdk_web.exe
   I selected "run" versus "save"

   b. DVD ISO that includes all necessary x64 components:
   http://download.microsoft.com/download/F/1/0/F10113F5-B750-4969-A255-274341AC6BCE/GRMSDKX_EN_DVD.iso
   For both installations:
   Installation options–kept at default
   Post installation help library installation (optional):
       Set local content location–default
       Install content from online
       Add - .NET Framework 4
       Add - Visual C++
       Add–Visual Studio SDK
       Add–Windows SDK 7.1

Configuring a newly exported Visual Studio project:

Launch Microsoft Visual C++ 2010 Express

Load a project...the following will only need to be performed once for each project!

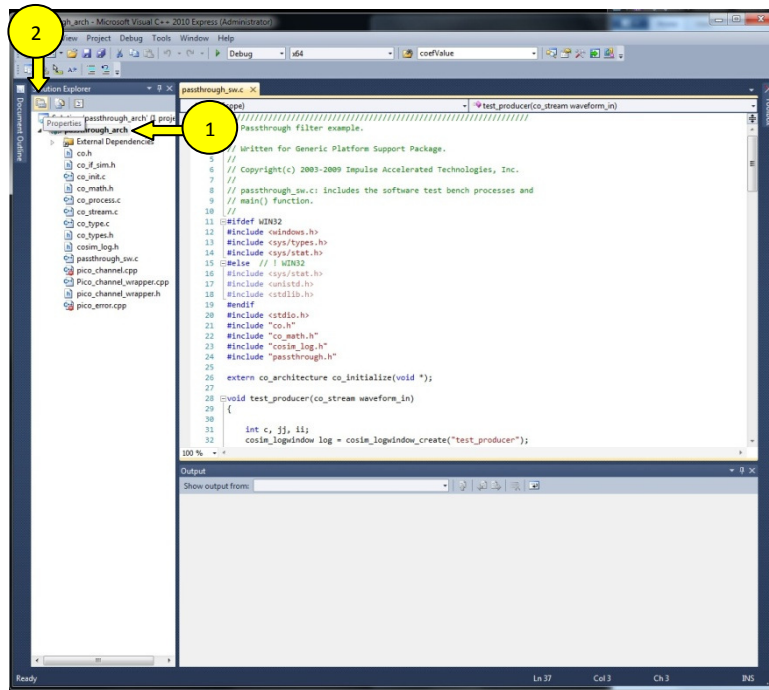1. Click to highlight the project title (on the left, under "Solutions")

Figure 1 Edit Project Properties Button

2. Click the "Properties" button/icon (upper left in the 'Solutions Explorer')
    NOTE: Steps 3-8 are only necessary if the active configuration for the "x64" platform does not appear automatically by default. If the center drop-down box displays "x64" instead of 'Win32', then skip to step #9
3. When the "Property Pages" pops up, click "Configuration Manager (upper right corner of the pop-up window)
4. Click the pull-down under "Active solution platform" (on upper-right side) when the "Configuration manager" pops up and select "<new>"
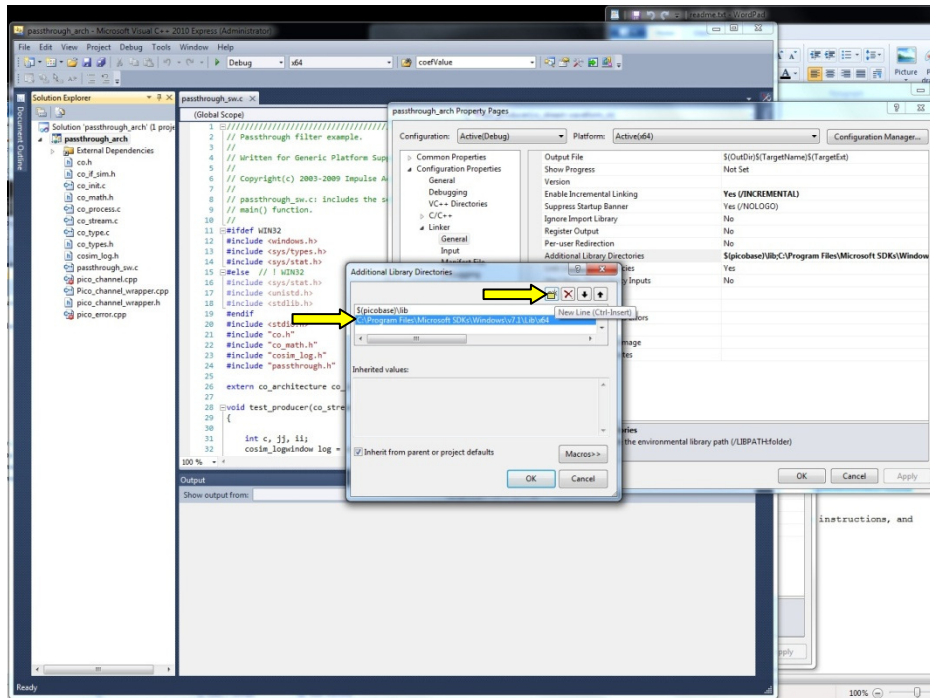
Figure 2 Edit to add line for 64 bit configuration

5. Select "x64" from "Type or select the new platform"
6. And leave "Copy settings from:" as Win32 with "Create new project platforms" checked.
7. Note: Project line item now has "Platform" = "x64"
8. Close" the "Configuration Manager"
    IMPORTANT: In the "Property Pages" pop-up...
9. Click Linker->Input and verify/add the "Additional Dependencies" insert "CyApi_x64.lib"
10. Click Linker->General path to 64 bit lib under "Additional Library Directories" insert
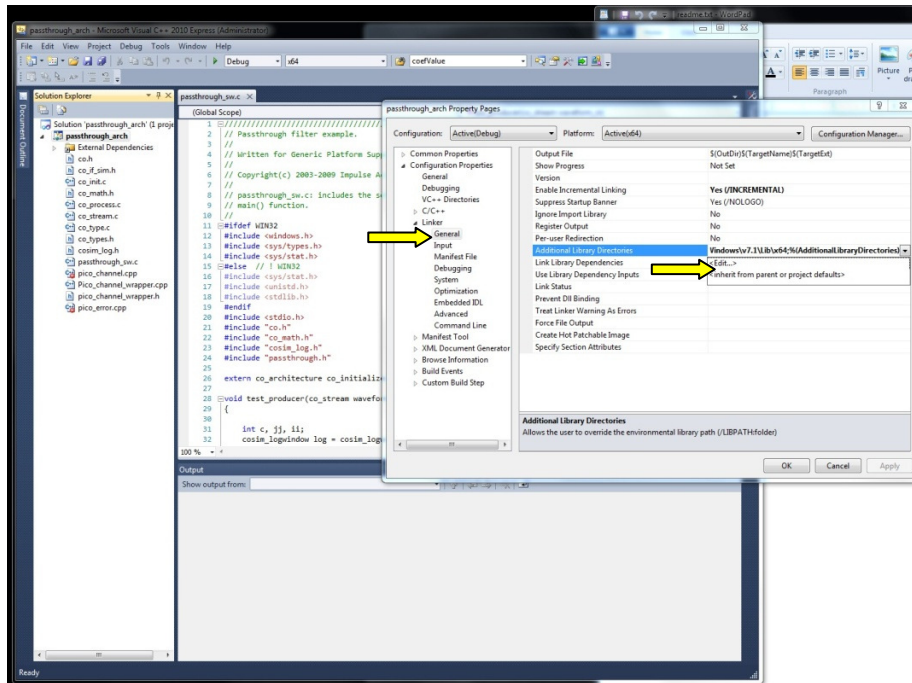   "C:\Program Files\Microsoft SDKs\Windows\v7.1\Lib\x64"

Figure 3 add library path

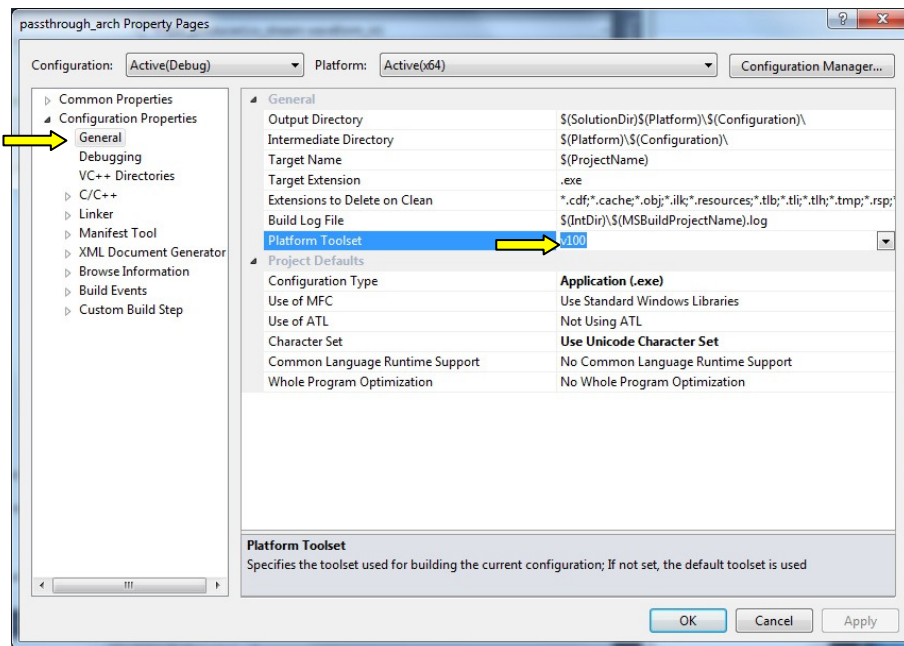11. Leave Configuration Properties->General "Platform Toolset" as v100 (MS bug)

Figure 4 General -> Platform Toolset = v100

Related link:http://social.msdn.microsoft.com/Forums/en/Vsexpressvc/thread/4ce313a3-cb5f-43fc-bbb9-50233f8ed11b