**Creating a New Project**

Welcome back to Cypress Academy, WICED WiFi 101. In this video I will talk about how to create a new project from scratch. In most cases, you will probably copy an existing project to a new name to make changes – and we’ll cover that later – but for now let’s start with a brand new project.

As you may recall from a previous video, all of your projects go under the “apps” folder inside WICED Studio. To start the process I’ll create a new folder under apps called “ww101” which will hold the example projects for this series of videos. Then, I’ll create a subfolder under that called “02” to hold the chapter 2 projects. Finally, I’ll create a project folder called “02\_blinkled”.

The folder 02\_blinkled is the name of the new project. Inside that folder I need to create 2 files …. One called 02\_blinkeled.c and the other called 02\_blinkled.mk.

02\_blinkled.mk is the make file. It MUST have the exact same name as the project folder. If not, the make process will not work correctly.

The make file contains information used by the make process to build your project. In this case, we just need to specify a unique application name and the name of the C source file.

The application name in the make file MUST BE UNIQUE ACROSS THE ENTIRE WORKSPACE. Let me say that again … MUST BE UNIQUE ACROSS THE ENTIRE WORKSPACE … I would highly recommend that you use the full path to the project folder as shown here since this will guarantee a unique name. If your name is not unique, you will get errors from the make process that will be hard to figure out.

There are other things that will go in the make file for more complex projects. I will cover those things in later videos.

02\_blinkled.c is the C source code. For now I will add just the bare minimum to get WICED started and then Ill add more interesting functionality in the next video. The four things I need are:

1. An include of wiced.h, which gives us access to all of the WICED API functions.
2. A function called application\_start which you can think of as main as it is the first thing called after the chip boots.
3. A call to wiced\_init which does initialization of the chip.
4. An infinite loop to contain the application.

While we’re at it, let’s create a make target for this project like I showed you in a previous video. Create a new make target, or make a copy of an existing one, so that you end up with:

ww101.02.02\_blinkled-CYW943907AEVAL1F download run

At this point you could program this project to the board …obviously It wouldn’t do anything very interesting yet. but In the next video, I’ll show you how to add code to use the LEDs and buttons on the board.

You can post your comments and question in our Wifi developer community or as always you are welcome to email me at alan\_hawse@cypress.com or tweet me at @askioexpert with your comments, suggestions, criticisms and questions.