**Chapter 2 Introduction**

Welcome to Chapter 2 of Cypress Academy, WICED WiFi 101. In order to build an IoT device you essentially only have two jobs, Number 1: you need to Read and Write data from the GPIOs, UART, SPI etc and then Number 2: you need to send it to the cloud. This next set of videos is focused on using the MCU peripherals in WICED. In other words, making your IoT device interact with the world around it.

When I teach this class in person, the final project is a weather station… like this one. To build this, your IoT device must act as an I2C master to talk to the PSoC4 Analog CoProcessor to find out the temperature and humidity. It must be able to act based on the user button presses (in other words read the GPIOs). It must be able to display results on this screen. In other words, it needs to get off the internet and do something in the real world! … Actually, the 43907 is perfectly capable of doing both at the same time.

When you look at chapter 2 in the text book you will find

1. A discussion of the scheme we use for board support package… which we call the platform files
2. An introduction to the “platform function” section of the documentation
3. The process that you follow to create a new project
4. A discussion of GPIOS, PWMs, Debug printing, the I2C, the UARTs

And finally, the exercises for the class. As you go through this online class I think that there are two ways you can do it.

1. You can watch the introduction videos, then read that section of the textbook… then do the excersies … then watch the videos if you get stuck.

Or

1. You can watch each video and follow along as I take you through the exercises.

Either way is fine and you should do what works best for your own learning style.

You can post your comments and questions 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.

Now, Onto the platform files.