

PSoC Academy: How to Create a PSoC BLE iOS App
Lesson 1: Getting Started

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00:00:09 Hello. My name is Alan Hawse. I'm Vice President of Technical Staff for Solutions and Software here at Cypress. Welcome to Cypress Academy. I've released a bunch of PSoC Creator and PSoC 4 BLE videos, which you can find in the video library on cypress.com. At the end of each video I always encourage you to send me an email at alan_hawse@cypress.com. Many of you have done that and I very much appreciate all of your feed back.

00:00:39 The most frequent question I've been getting recently is how do I write an iPhone app to connect to my BLE project. In this next set of videos I'm going to teach you how to do just that. In the first video I will give you a tutorial on creating PSoC 4 BLE firmware applications. Next, I'll show you how to debug your firmware using the iPhone version of CYSmart as well as the PC version of CYSmart.

00:01:07 Then I'll give you the introduction to the iOS core Bluetooth framework, plus one important feature in iOS called the NS notification. After we have the fundamentals in place I'll help you through the steps of building the app to connect your PSoC 4 BLE project. When I started working on this lesson my 11 year old son, who is totally into Maker, said I should build a robot to show in these videos. Imagine that - an 11 year old who is into robots. So I agreed.

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- 00:01:36 In the last section of videos I'll show you how to build a robot and write the BLE firmware to run on it and then how to build an iOS app for a remote control. In order to build the iOS apps I'm going to use Xcode 6 and the fairly new Apple programming language Swift. If you don't have basic knowledge of Swift then I recommend that you watch the excellent videos of Paul Hegarty teaching CS193P at Stanford. You can find those videos in iTunes U.
- 00:02:08 To follow me in implementing these examples you will need a CY8CKIT-042BLE, a Mac running Xcode 6 and a PC running Creator 3.2. While building these examples I've been running Creator in a virtual Windows 7 installation on VMware fusion on my Mac. I find that worked very well. As always you're welcome to email me at alan_hawse@cypress.com with your comments, suggestions criticisms and questions.