BLE CapSense Remote Control

Welcome back to Cypress Academy, PSoC 6 101. So far, we’ve created a BLE-controlled robotic arm, and added a second PSoC 6 BLE Pioneer Kit to the system to act as a remote control. We are now going to add CapSense capacitive-sensing to our BLE Remote Control for our robotic arm. So, we’ll start a new project, and add a CapSense capacitive-sensing interface to control the robotic arm that is connected to the PSoC 6 kit configured as a peripheral device, via BLE.

To get started, let’s create a new PSoC Creator project, we’ll call it BLE CapSense Remote Control

[Create a new project, add and configure the CapSense Component, show the PDL APIs]

[Add and configure the BLE Component, show the PDL APIs]

[Explain that for this project, we’ll again dedicate the CM0+ for the BLE functionality and leave the CM4 to do the CapSense functions and what’s to come]

[Add and describe the firmware across the two cores]

[Build and run]

[Demo and show how to connect the two PSoC 6 BLE kits and control the robotic arm with the CapSense interface]

Now we have a BLE remote control with CapSense and a BLE-controlled robotic arm. Next step, lets add in some sensors. For the next few videos, we’ll be implementing the motion sensor and temperature sensor on the E-ink Display shield board to the BLE remote controller!

You can post your comments and questions in our PSoC 6 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.