BLE Remote Central

Welcome back to Cypress Academy, PSoC 6 101. So far, we’ve created a BLE-controlled robotic arm as a peripheral device, and now it’s time to create the BLE remote controller on the main board, as a central device We’re going to focus just on the remote-control side of the system now. So, we’ll start a new project, and add BLE connectivity to send control signals to the PSoC 6 BLE that’s directly connected to the robotic arm. For this video, we’ll only focus on the BLE side of things, setting this remote controller board as a central device.

To get started, let’s create a new PSoC Creator project and call it BLE Remote Central

[Create a new project, 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 and a BLE-controlled robotic arm. Next step, we’ll add CapSense to this remote control, so that we can send CapSense data via BLE to the peripheral device and control the position of the robotic arm.

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.