

Embedded Prototyping

EP - Mostly for Digital

- Wired Control
- **Wireless Control**

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Agenda

- Fundamentals (mostly for Analog)
 - Implementing necessary prototyping functions such clocks/GPIO, Read A/D, I2C, etc.
 - Seamless interface of various Analog EVM's for customer “proof of concept”
 - Standalone UI - Button (GP Input - GPIO), LCD Display (“Hello”), Music, Serial Interface (Putty)
- More UI (i.e. GUI Advanced Comm Tab basically Putty/Serial I/F) - Lessons learned from home networking (if you can setup the WiFi in your house, you can prototype with a few steps)
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 - Wired and [Wireless Control](#)
 - Use of TI Cloud Computing Tools for prototype
- Advanced Topics
- Conclusion Demos (Simple and Complex)

Revisit Setting up WiFi example -> Enable Wireless Control

- Wireless Control of prototype (Impress your friends with no PC, just phone or tablet) using CC3220SF [Launchpad](#) and Code Composer Example [Network Terminal](#) to setup a soft Access Point (AP):

Available commands:

```
help                scan                setpolicy           wlanconnect
wlan_ap_start       wlandisconnect      ping                send
recv                createfilter        enablefilter        disablefilter
deletefilter        enablewlan          mdnsadvertise      mdnsquery
radiotool           p2pstart            p2pstop            clear
```

```
user@CC3220:scan -n 10
```

	SSID	BSSID	RSSI	Ch	Hidden	Security
1	CBCI-3418-2.4	20:25:64:f5:a9:b8	-70	1	NO	WPA/WPA2
2	5TH AVE Secure	ac:86:74:ad:1e:03	-86	1	NO	WPA2
3	halekoa75	ac:a3:1e:f9:11:c0	-59	11	NO	WPA2
4	externalhotspot84	ac:a3:1e:f9:11:c1	-59	11	NO	WPA2
5	net4guest	ac:a3:1e:f9:11:c2	-59	11	NO	WPA2

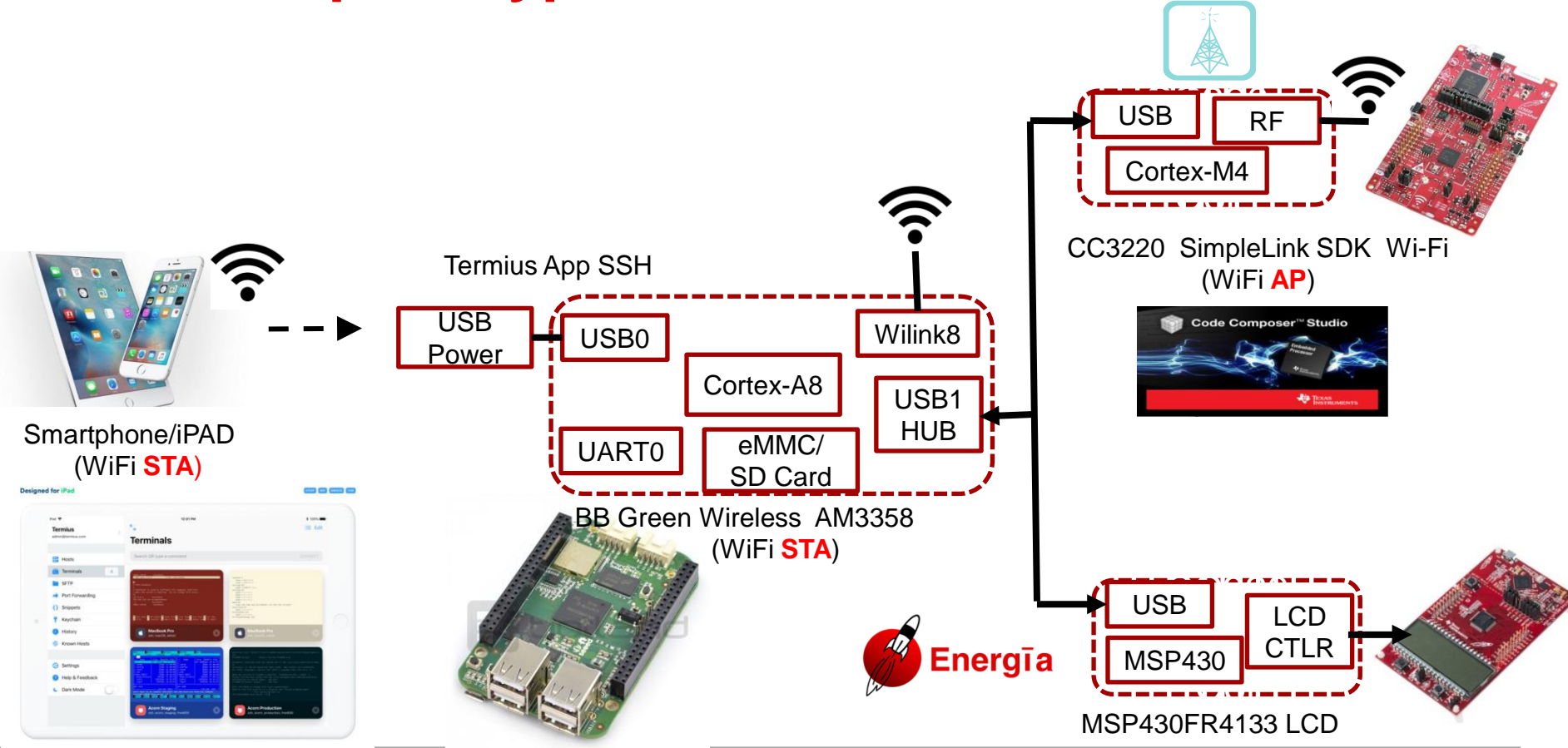
```
user@CC3220:
```

```
wlan_ap_start -s CC3220_joe
```



CC3220 SimpleLink SDK Wi-Fi
(WiFi AP)

Embedded prototype demo Wireless Control of LCD



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