

Embedded Prototyping

EP - Mostly for Digital

- Use of TI Cloud Computing Tools for prototype

Joe George, Northeast Digital Field Applications

Texas Instruments

Americas Sales and Marketing

Agenda

- Fundamentals (mostly for Analog)
 - Implementing necessary prototyping functions such clocks/GPIO, Read A/D, I2C/SMBus, etc.
 - Seamless interface of various Analog EVM's for system “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)
- EP - Embedded prototyping (mostly for Digital)
 - Wired and Wireless Control
 - Use of TI Cloud Computing Tools for prototype
- Advanced Topics
- Conclusion Demos (Simple and Complex)

TI Cloud Computing with ti.com links

- TI Cloud Computing <https://dev.ti.com/>
- TI Resource Explorer ([TIREX](#))
 - [Energia Cloud](#) Examples (Files, Docs)
 - Built-In - Blink, ReadAnalog Voltage, etc. EducationalBP_MKII
 - Library – Adafruit_TMP007, Wire, WiFiMKII
- Build and Run Example?
 - Usually Flash Image with [Uniflash](#) Cloud - Need [Image Creator](#) (Security)
 - TI Resource Explorer ([TIREX](#)) imports to Code Composer Studio ([CCS Cloud](#))
- Demo(s)
 - Energia Cloud for WiFiMKII APWatchConnectDisconnect)
 - CCS Cloud for Network Terminal

CC3220SF SimpleLink SDK Wi-Fi
(WiFi **AP**)



~~No Download~~

Agenda

- Fundamentals (mostly for AFA)
 - 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)
- EP - Embedded prototyping (mostly for DFA)
 - Wired and Wireless Control
 - Use of TI Cloud Computing Tools for prototype
- Advanced Topics
- Conclusion Demos (Simple and Complex)