Conclusion

Conclusion / Call to Action

Conclusion Demos

- (Simple) Drive UCC28070 PFC Controller MSP430 (Revisit Square Wave)
- (Complex) Neopixel controlled wirelessly from iPad (Fun)

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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)

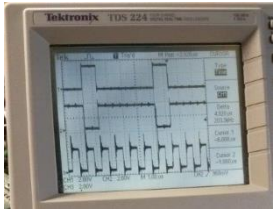
Conclusion

- Conclusion / Call to Action
  - Keep prototyping with the ideas mentioned here using various tools (i.e TI Cloud Computing)
    - Especially analog EVMs connected to Launchpads (i.e. I2C/SMBus)
    - Influence TI to make rapid prototyping easier (command line interface over GUI?)
  - Have Fun!

- Conclusion Demos
  - (Simple) Drive UCC28070 PFC Controller MSP430 (Revisit Square Wave)
  - (Complex) Neopixel controlled wirelessly from iPad (Fun)

Rapid Prototype Examples

- PFC (Power Factor Correction) Controller
  - Generate clocks for UCC28070 PLC ~100 kHz, 180 degrees out of phase



- SMBus (I2C) setup for Battery Charger
  - BQ24725a read Mfg ID and Device ID

- Drive Neopixel LED's for Appliance

- Amazon Alexa: Amazon Tap Button when no wake word