

Github root directory: <https://github.com/Ayertena/AdvEmbeddedSys>

Date Due: 11/29/2018

Task 00: Getting started

- Installed Uniflash, SensorTag app and sent firmware images to phone.

Task 01: Update CC1350 LaunchPad firmware

- Successfully used Uniflash to format the external flash memory, load a hex file and finally updated the firmware using our phone.

Task 02: OAD download sub-1GHz firmware images

- Successfully updated firmware to get our device to act as coordinator and Node running a sub-1GHz protocol.

Task 03: Running the sub-1GHz firmware images

Youtube Link: <https://youtu.be/tD01eSbA3NQ>

- Successfully run the firmware images and displayed values on putty terminal.
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Task 01: Importing the WSN Examples

- Imported and built rfwsnConcentrator example.

Task 02: Putting it all to work

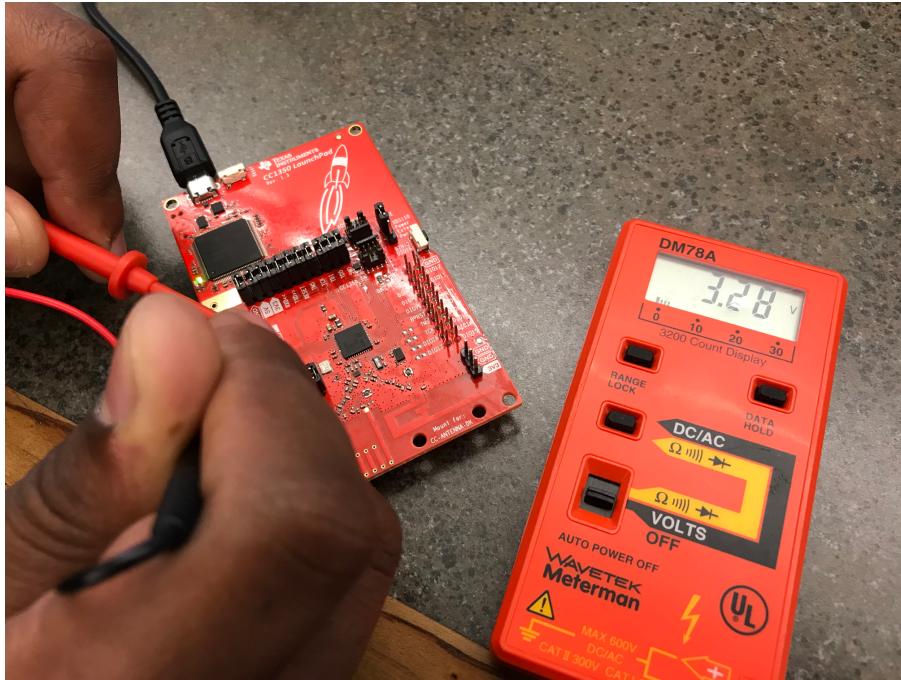
- Successfully observed change in node value on the concentrator device from putty terminal.

Task 03: Change RF Channel

- Successfully changed the RF Channel

Task 04: Switch from 2-GFSK 50 kbps to Long Range Mode (LRM)

- Successfully switched to long range on both concentrator and node.



Task 05: Measure Power consumption on the node

- Measured the power consumption

Task 06: Modify Code Running on the Sensor Controller

- Changed the next execution to wake every 2 tics.