Matthew Hoffman CpE 403 – Advanced Embedded Systems CC1350 Lab 4

Task 1- Importing the WSN Examples

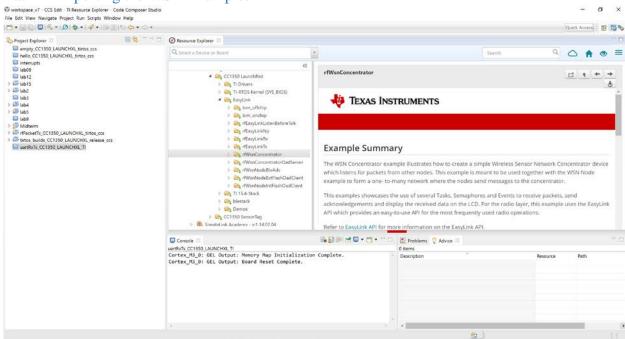


Figure 1. Task 1.a - rfWsnConcentrator

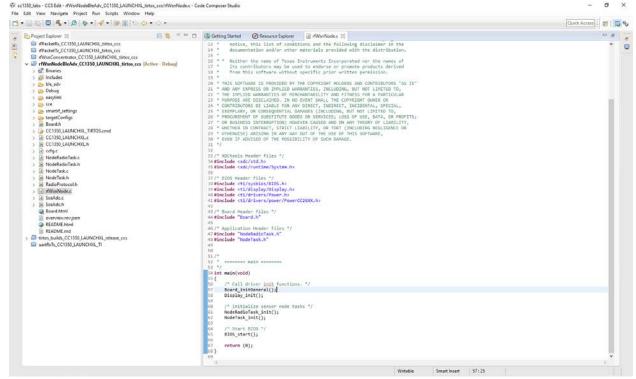


Figure 2. Task 1.b – rfWsnConcentrator

Task 2 – Putting it all to work

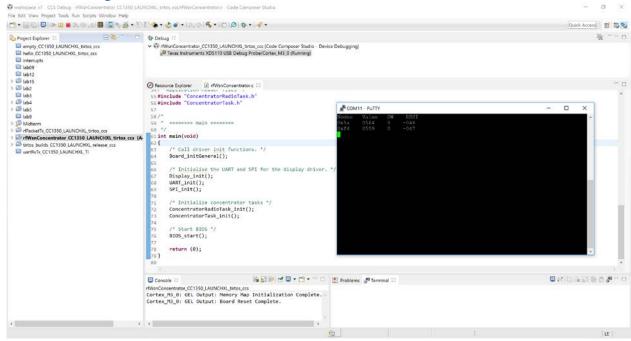


Figure 3. Task 2.a – Node connections

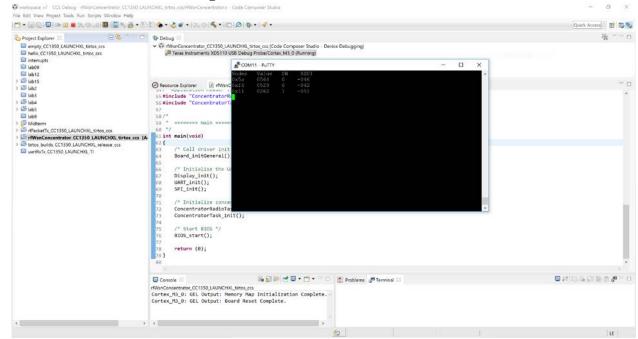


Figure 4. Task 2.b – ADC Value defaults

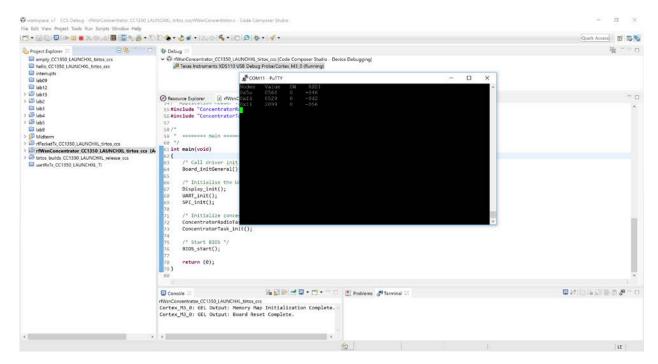


Figure 5. Task 2.c - ADC Value with changed ADV values

Task 3 – Change RF Channel

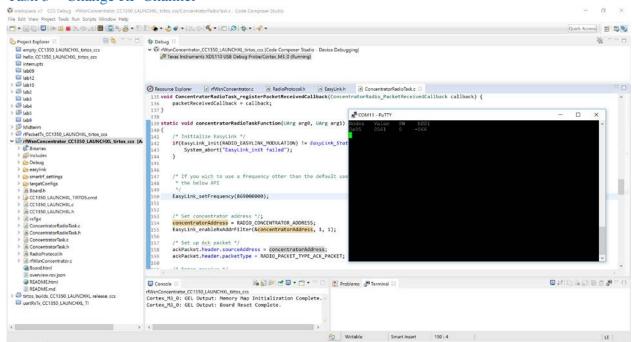


Figure 6. Task 3.a Use of original frequency 868000000

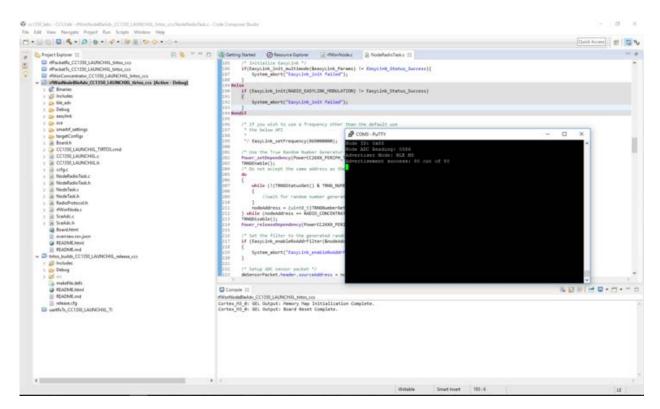


Figure 7. Task 3.b Change of original frequency to 867000000

Task 4 – Switch from 2-GFSK 50 kbps to Long Range Mode (LRM)

Figure 8. Task 4 – Change of short to long range

Task 5 – Modify Code Running on the Sensor Controller

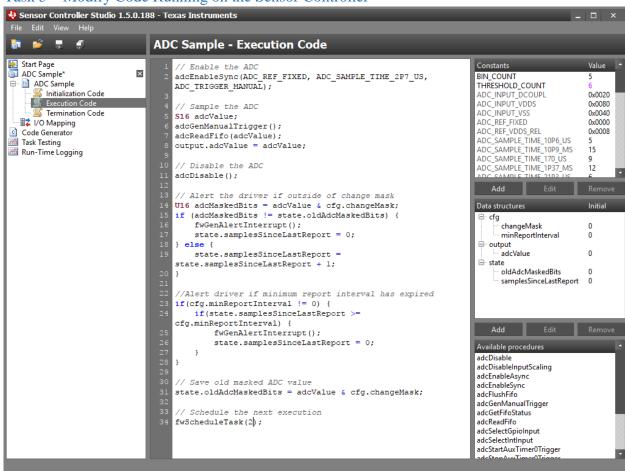


Figure 9. Task 5.a - Sensor Controller Studio Execution Code

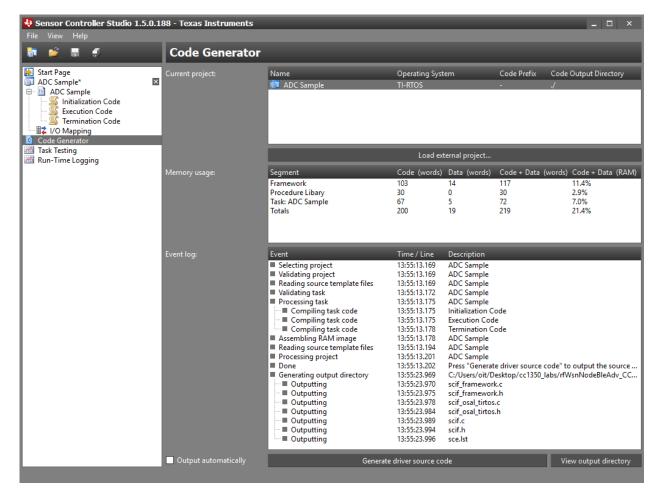


Figure 10. Task 5.b – Code Generator. Sampling Change.

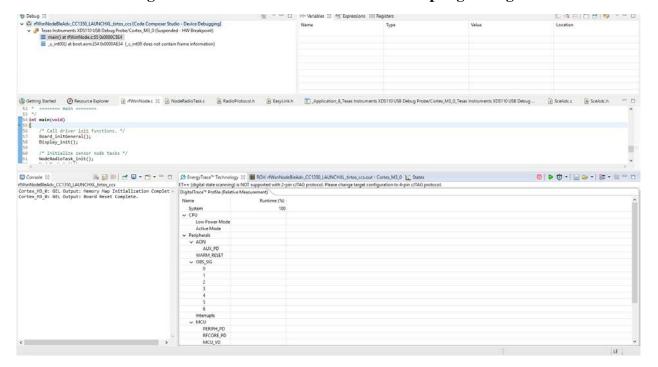


Figure 11. Task 5.c – Energy Trace