

CPE403 – Advanced Embedded Systems

Design Assignment 06

DO NOT REMOVE THIS PAGE DURING SUBMISSION:

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Github Repository link (root): <https://github.com/DoVietLe/AES>

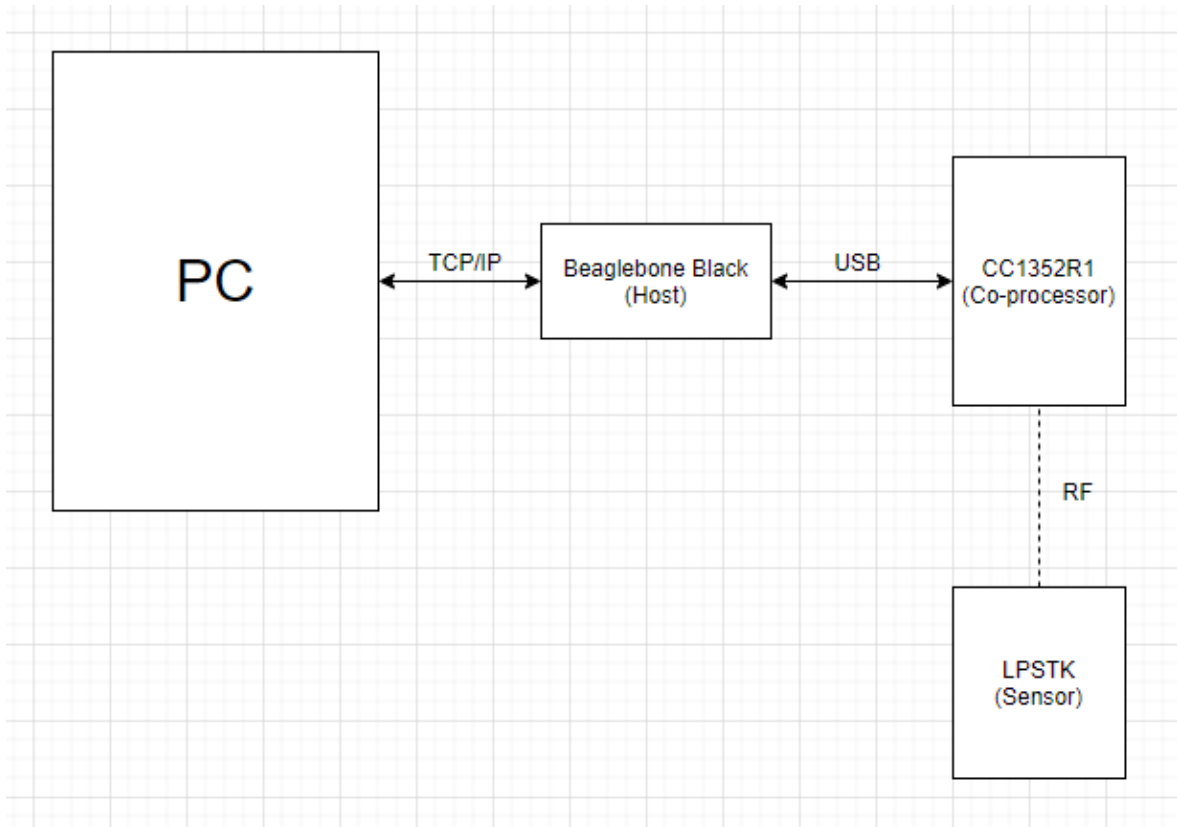
Youtube Playlist link (root):

<https://www.youtube.com/playlist?list=PLFfzhLPj7fvOz1lm2Vd9DevkHetoyvRQ6>

1. Code for Tasks. for each task submit the modified or included code (from the base code) with highlights and justifications of the modifications. Also include the comments. If no base code is provided, submit the base code for the first task only. Use separate page for each task.

No code was modified for this assignment.

2. Block diagram and/or Schematics showing the components, pins used, and interface.



3. Screenshots of the IDE, physical setup, debugging process - Provide screenshot of successful compilation, screenshots of registers, variables, graphs, etc.

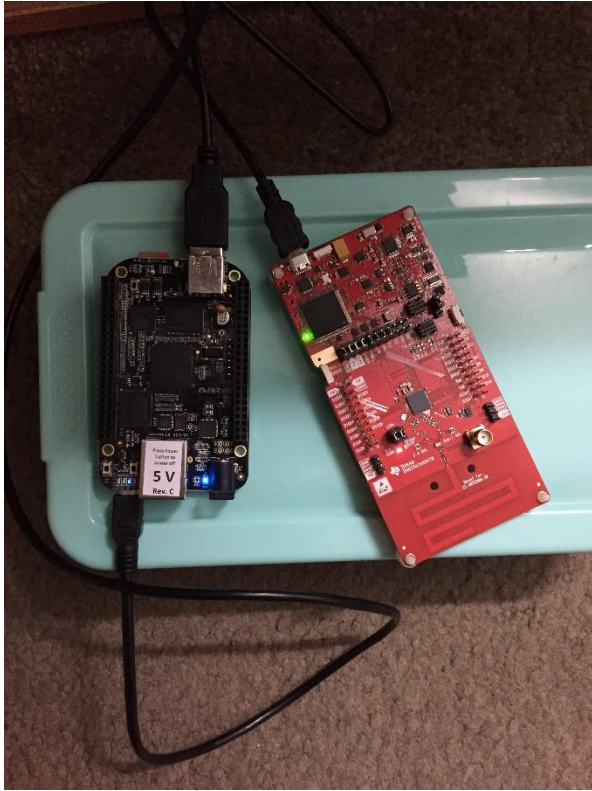


Figure 3: Physical Setup

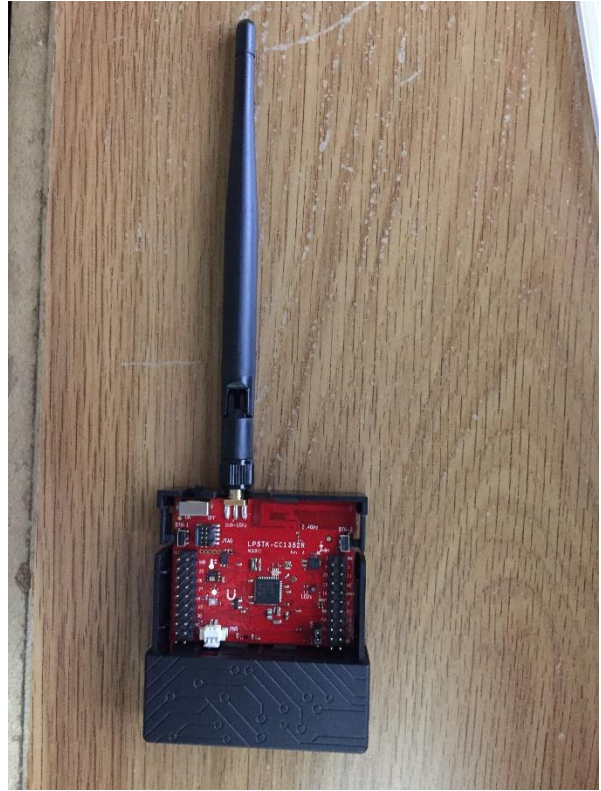


Figure 2: Sensor (LPSTK)



Figure 1: Connecting to network

```

total 12
drwxr-xr-x 2 debian debian 4096 Apr  6 17:04 bin
drwxr-xr-x 6 debian debian 4096 Apr  6 16:57 gateway
-rwxr-xr-x 1 debian debian 1758 Apr  6 16:57 run_demo.sh
debian@beaglebone:~/prebuilt$

```

Figure 4: Placing files onto BBB

```

debian@beaglebone: ~/prebuilt
TI Collector
Nwk: Started

Info: Channel 0
Collector Running as Process id: 1709
Launching Node-JS gateway application in background
Gateway is running as Process id: 1720

On your host, launch your browser using:
debian@beaglebone:~/prebuilt$ Connected to App Server

```

Figure 5: Connecting to App Server

Network Information	
PanID	0xACDC
Coord Addr	0xAABB
Network Mode	Non Beacon
Security	Enabled
Network open for New Devices	close

Figure 6: Opening the Network

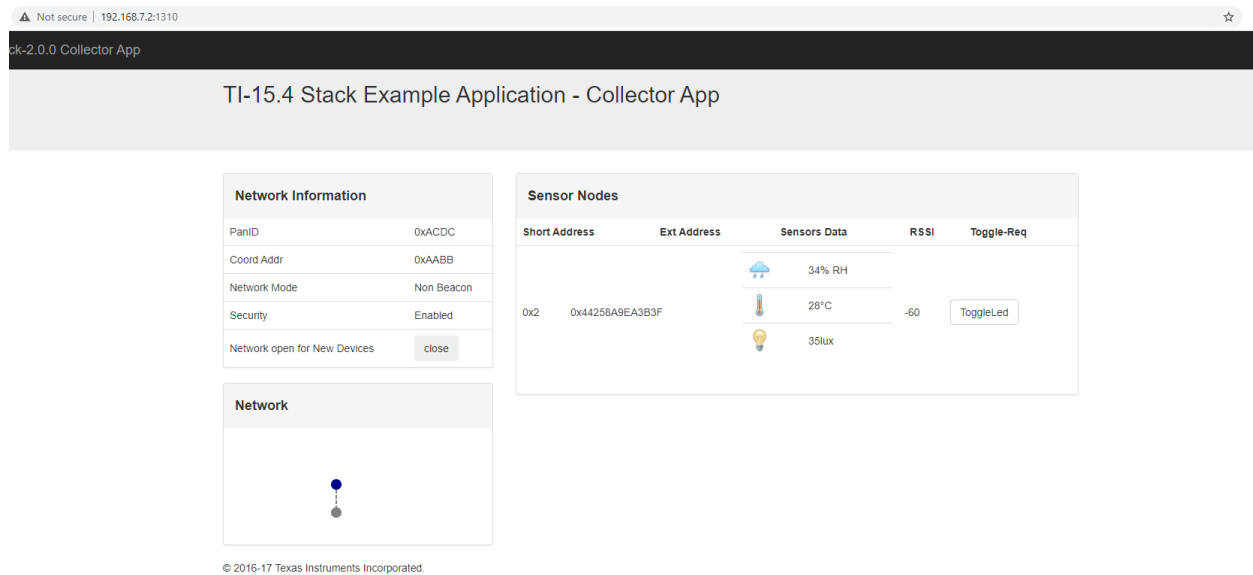


Figure 7: Values as received from sensor

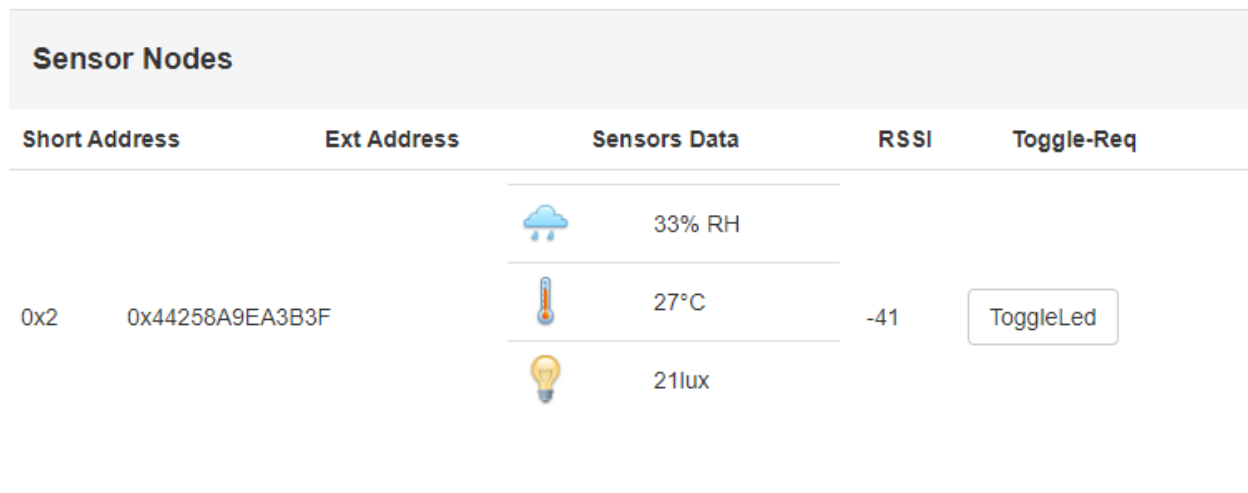


Figure 8: Closeup of values from sensor

4. Declaration

I understand the Student Academic Misconduct Policy -
<http://studentconduct.unlv.edu/misconduct/policy.html>

“This assignment submission is my own, original work”.
 Do V. Le