

CPE403 – Advanced Embedded Systems

Design Assignment #6

DO NOT REMOVE THIS PAGE DURING SUBMISSION:

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Github Repository link (root): https://github.com/joeuesato/lab_submissions

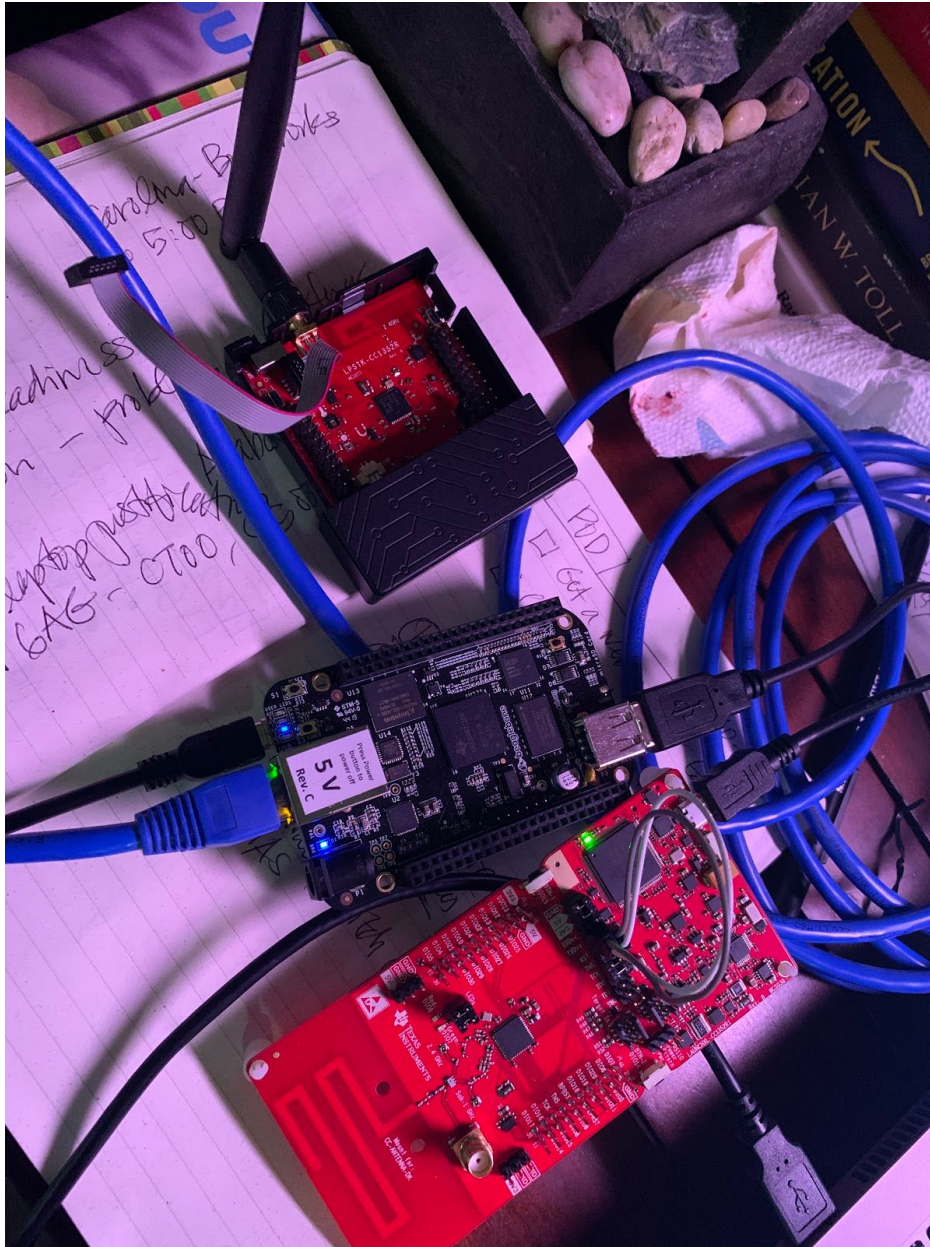
Youtube Playlist: <https://www.youtube.com/playlist?list=PLSBOvuRedzOf8JAhpVx0VsSteisJQUKv3>

Follow the submission guideline to be awarded points for this Assignment.

Submit the following for all Assignments:

1. In the document, 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.
2. Create a private Github repository with a random name (no CPE/403, Lastname, Firstname). Place all labs under the root folder TIVAC, sub-folder named Assignment1, with one document and one video link file for each lab, place modified c files named as asng_taskxx.c.
3. If multiple c files or other libraries are used, create a folder asng1_t01 and place these files inside the folder.
4. The folder should have a) Word document (see template), b) source code file(s) with startup_ccs.c and other include files, c) text file with youtube video links (see template).
5. Submit the doc file in canvas before the due date. The root folder of the github assignment directory should have the documentation and the text file with youtube video links.
6. Organize your youtube videos as playlist under the name "cpe403". The playlist should have the video sequence arranged as submission or due dates.
7. Only submit pdf documents. Do not forget to upload this document in the github repository and in the canvas submission portal.

1. Block diagram and/or Schematics showing the components, pins used, and interface.
BBB is connected to the computer using USB-A and to the router using the ethernet cable.
Launchpad is connected by USB to BBB



by USB to BBB.

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

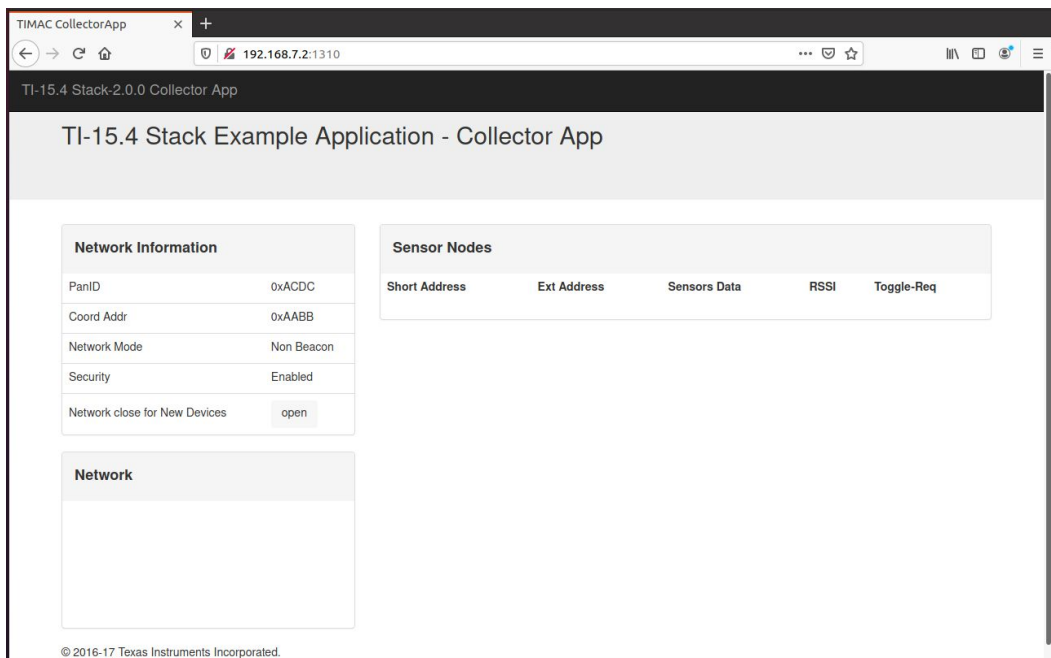
Screenshots of the application running:

```
TI Collector
Nwk: Started

Info: Channel 0
Collector Running as Process id: 17161
Launching Node-JS gateway application in background
./run_gateway.sh: line 57: kill: (1004) - Operation not permitted
Gateway is running as Process id: 17198

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

```
debian@beaglebone:~$ ls -l /dev/ttyACM*
crw-rw---- 1 root dialout 166, 0 Oct 7 2018 /dev/ttyACM0
crw-rw---- 1 root dialout 166, 1 Oct 7 2018 /dev/ttyACM1
debian@beaglebone:~$
```



2. Declaration

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

"This assignment submission is my own, original work".
Joe Uesato