## CSE522: RTES – ASSIGNMENT 4

SUSHANT TRIVEDI (ASU ID: 1213366971 – Group 20) PAVAN KUMAR LINGA (ASU ID: 1213267638 – Group 11)

## **HCSR SENSOR**

We successfully wrote the drivers for the HSCR sensor with 2 instants (HCSR\_0 & HCSR\_1) using configuration pointer component. Please find the pin configuration for the HCSR in the Read me File enclosed. For the sensor channel we have used SENSOR\_CHAN\_ALL, SENSOR\_CHAN\_DISTANCE

Supported APIs:

sensor\_sample\_fetch()
sensor\_channel\_get()

## **FLASH EEPROM**

We successfully wrote the drivers for the flash sensor with the configuration as explained in the readme file.

Supported APIs:

flash\_read()
flash\_write()

## **SHELL MODULE**

1. Shell Enable: Enabling Shell → HCSR01 Sensor

```
MRRING: no console will be wastable to ES
error; no satisfies wides where found,
EFROR INSTALLED
EFFOR INSTALL
```

2. Shell Start: Cleans the buffer first

```
MRNNE: no console will be available to 05
correy to quitable video node found.

EXEN INT SHRITE

MARS NATI CONFLIC

MARS NATI C
```

3. Sampling and Storing of the N pages as per user input onto the buffer and using flash\_write() to write it to eeprom at appropriate memory.

```
Set. 1584 when to Frage to Witte 5 to Frage to
```

 $4. \ \ While \ Reading \ from \ memory \ printing \ single \ byte \ byte \ values \ read \ and \ this \ is \ then \ combined \ into \ uint 32\_t \ to \ recreate \ buffer$ 

Please note that in every reading the first four bytes are going to be the 32bit timestamps and the next 4 bytes are the data.

