

Lora RF Prototype Team Project Requirements

HL

This project counts total 20 points.

The objectives/tasks for this team project was stated in the class (see lecture notes, pp. 55, the notes is captured and given below)

2° Project (Semester Project on Lora RF) formal presentation is scheduled

55

on Dec 6 (Monday)

The presentation Requirements

(1) Implementation of Lora RF on your chosen platform.

Demo: "Hello, First-Last-Name^a of the team coordinator^b, then First-Last Name of each team member, c the work accomplished by each team member," Example:

		Task
John Doe	Coordinator	Hardware & Design
Mr. A	member 1	..
Ms. B	member 2	Int. & Config. R.F.
:		

(2) Short PPT. (3-5 slides)

(3) Report: IEEE Paper Template (github)

Sections — Contributor's Name

(First paragraph for each section indicates person(s) who contributed lead the creation of the section)

Submission:

1° Report; 2° PPT; 3° Photos &

5-10 Seconds Video clips.

To summarize the requirements:

1. This is a semester end project which was started planning phase at the earlier half of the semester. The goal is to use Lora RF module on your prototype board to realize bi-directional

communication. So the first task is to integrate this RF module to your chosen target platform, solder the wires and make sure it can interface to your embedded platform;

2. Then program the embedded platform to interface to Lora RF module to transmit the following message:

(2.1) First Name, last name of the team coordinator and last 4 digits SID;

(2.2) First Name, last name of each team member, and last 4 digits SID;

(2.3) The list of the tasks assigned and accomplished for each team member.

3. Short PPT (3-5 slides)

4. Photos of

(4.1) Photo of the entire system with host laptop and prototype system with RF board integrated with Lora RF module;

(4.2) Photo of the RF board with Lora RF module;

(4.3) Photo of the Lora Pin Connectivity Table;

(4.4) A video clips (less than 1 minute) of the system operation demo.

Submission:

1. PPT;

2. Photos and video clips mentioned in item 4 above.

(END)