

Flash-IOT

# Weekly Team Meeting 09/26

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26 SEPTEMBER 2019 / 2:30 PM / ISGC Conference Room

## ATTENDEES

Dr.Li, Xueren Wang, Wei Hu, Zhicai Li, Yanqin Huang, Yuhang Dai

## AGENDA

- Approval of our Product Requirement Document.
- Discuss a rough plan for our project.
- Establish a schedule based on the rough plan.

## NOTES

- Approval of our Product Requirement Document
  - We made some changes to the document:
    - Reliability Requirements: 90% -> use BER to quantify.
    - Add temperature: 10 °C - 40 °C.
  - The document was approved by Dr. Li.
- Discuss a rough plan for our project :
  - We need to draw a system block diagram which is an easier way to follow the project.
  - We discussed some concerns of the project suggested by Dr. Li:
    - Do we need to design LED driver ?
    - Do we need to design photodiode circuits?
    - Is it possible to reach 10m?
    - What will be the power consumption for long distance communication?
  - For the first two questions, we concluded our design is more about system layer than hardware layer. Therefore, we can purchased some modules for our project. For the last two questions, we will do the research and give some solutions in the next meeting.
  - We will also discuss the process of purchasing materials in the next meeting.
- Establish a schedule based on the rough plant:
  - We agreed that inputting 8 hours per week for our senior project is reasonable.

- Our rough schedule is listed in Project Requirement Document.

## **ACTION ITEMS**

1. Study general level principle of communication: the book recommended by Dr. Li is “Communication Theory” by Changxin Fan.
2. Study basic parameters of LED and Photodiode.
3. Study examples of modulation such as OOK and PWM applied in VLC.
4. Generate solutions for project requirements.