

Senior Design Bi-Weekly Status Report; Fall 2020

Team Name: sdmay21-14

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Report Period: Aug 31-Sept 13

Summary of Progress in this Period

We agreed on a meeting time that works with both client and team

We further defined the rough idea of design with Prof. Duwe and clarified some of the details necessary in the first draft of the design document.

Pending Issues

Research wake-up radios

We need to start talking about specific ways to approach the design

Some design decisions need to be made (what components to be used)

A discussion with Prof. Duwe to go over our discussed approach so he can give pointers and accept/decline that method

Plans for Upcoming Reporting Period

Define the scope of the project with more details.

The purpose of this next design period is to discuss methods of waking up the system. This is a key step as it will need to work with Dr. Duwe's team. We need to pin down specifically whether or not we would like to use a wake up radio or a pulse on the same antenna that collects power. We are currently discussing the best way to wake up the system as this will immediately affect our energy consumption. We are leaning towards our second idea which is sending a specific signal to turn the system on. This will decrease efficiency but will prevent the system from being turned on accidentally which leaves less systems on at the desired time.