2.10 ALERRT CENTER Weekly Status Report

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Sponsor: Texas State University

Team Members:
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Green Current Project Status

This was the first week where the full functionality of our project was complete, which will allow us to begin integrated testing. Bo worked on trying to find the max baud rate acceptable for the Bluetooth module and board to maintain the integrity of the data without losing any bits by overwriting. This will allow for the maximum speed possible while streaming our data files. Matt integrated the battery management firmware into the sensors and also began testing connections of varying distance as laid out in our test plan. Karina also is working through testing conditions for storage capacity and battery life. Also, we put in an order for a couple more parts in order to have for testing.

Individual Updates (Activities Completed, Activities Planned)

Bo	Began testing throughput of the Bluetooth module. Also, will begin testing of the calibrations of the accelerometer, gyroscope, and magnetometer as laid out in our test plan.
Matt	Implemented Battery management system into existing firmware as a function to be periodically called. Began testing multiple connections over varying distance, battery life span, and memory life span
Karina	Worked and printed the 3rd iteration for the enclosure. Working on testing conditions for storage capacity and battery life.

Upcoming Deliverables (course and project due in next 2 to 3 weeks)

Deliverable	Due Date	Status
Find Max Baud Rate of Bluetooth module	10/28/2019	In Progress
Test battery, storage, connection range	11/2/2019	In Progress

Sponsor and Faculty Advisor Meetings/Calls Held & Planned

Who	Last	Topic(s)	Next
Dr. McClellan	10/2	Integrating universal timestamp/error checking	10/23