

Team Weekly Report

Team: Bray IIoT Smart Solutions

Week: 5

Members: Aysen De La Cruz, Matthew Livesay, Alex Kearney, Abdiel Rivera, Josh Werner

Status Report

In a recent meeting with Bray it came to our attention that the work the previous team had done was all designed specifically for their project and their project alone. As such, we have needed to rethink our plans for completing this project since most of what was given to us would need to be torn down and rewritten to suit our needs. Despite the setbacks with the software, we have made decent progress with the hardware side as the first of our sensors has been soldered and is ready for use in transmitting data. Moving forward, we will be shifting our focus onto the software and ensuring that the firmware for the sensor and the software for the web application is capable of functioning with the CO2 sensor that we were given.

Current Status

1. What did the team work on this past week?

Task	Task Lead	Status	Notes
Acquiring Bray Software	Matthew Livesay	Complete	
Development of web application	Abdiel Rivera/Josh Werner/Alex Kearney	In Progress	Roadblocks in terms of backend structures
Connect system hardware	Matthew Livesay	Done	
Development of transmitter firmware	Aysen De La Cruz	In Progress	
Update database structures	Josh Werner	In Progress	
Planning new software updates and additions	N/A	In Progress	Backend redesign is our main focus area
Solder sensor to cable	Matthew Livesay	Done	
Connect system hardware	Matthew Livesay	Done	
Update Gantt Chart	Josh Werner	Done	Temporary draft of updated chart completed, needs to be confirmed with team

Configure R-PI for data collection	Alex Kearney	In Progress	Need to test integration within the full system
Be able to flash a known good version of the firmware to the LoRa board	Matthew Livesay	In Progress	Waiting for instructions. I think I can do it now but don't want to brick the board

2. What feedback has the team received? No feedback received this week.

From Whom	Feedback	Next Steps

3. Are any resources needed? If so, what?

There are no tangible resources needed at this moment. Currently, though we need to discuss the future steps of this project. This includes discussing our measurement of success, and the notion that a large portion of the project report is incorrect because of the false impression we were given of the project goals at the start.

Plans for Next Week

What are your plans for this next week?

Task	Task Lead	Notes
Development of web application	Abdiel Rivera/Josh Werner/Alex Kearney	Database redesign
Development of transmitter firmware	Aysen De La Cruz	
Update database structures	Josh Werner	
Planning new software updates and additions	N/A	Continuing to fully understand the project and plan for new tasks as necessary.
Be able to flash a known good version of the firmware to the	Matthew Livesay	

LoRa board		
Understand legacy code for the firmware. It's a mess currently	Matthew Livesay Aysen De La Cruz	