

Team Weekly Report

Team: Bray IIoT Smart Solutions

Week: 9

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

Status Report

Last week, for unknown reasons, our gateway was factory resetted. Part of the gateway config was able to be restored with a backup file, however much of it had to be manually re-configured. In spite of this setback, we have made great progress and are nearing project completion. Our transmitter firmware is sending CO₂ sensor data. Some work may still be required to re-factor the firmware to better adhere to the principles of good software engineering. We are now working on improving the interpretation and display of that data. Additionally, we are beginning to work on user testing and presentation material.

Current Status

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

Task	Task Lead	Status	Notes
Development of a web application	Abdiel Rivera/Josh Werner/Alex Kearney	In Progress	
Development of transmitter firmware	Aysen De La Cruz	Completed	May need refactoring
Work on the integration of old software elements and new software elements	Josh Werner	In Progress	
Connecting the LoRa board and conduit	Aysen De La Cruz	In Progress	This was completed but after a setback of the conduit factory resetting we are back to square one.
MQTT Configuration	Alex Kearney	In Progress	Listener port established, testing needed to translate data
Report: User Manual	Alex Kearney	Completed	
Report: Implementation Details	Alex Kearney	Completed	
Report modifications	Alex Kearney	In Progress	Feedback received
Understand legacy code for the firmware. It's a mess currently	Matthew Livesay Aysen De La Cruz	Completed	

2. What feedback has the team received?

From Whom	Feedback	Next Steps
Anonymous feedback	Our evaluation plan was peer reviewed and while we primarily received positive feedback there are a few sections that can be updated and fixed	We will take this feedback to improve our evaluation plan.
Abdullah Aman Tutul	Some elaboration is needed in the Related Works section	Improve Related Works section

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

N/A

Plans for Next Week

What are your plans for this next week?

Task	Task Lead	Notes
Development of web application	Abdiel Rivera/Josh Werner	Frontend/Backend
Report Modifications	Alex Kearney	
MQTT Configuration	Alex Kearney	Make sure data is being received and decrypted
Poster Draft	Alex Kearney	
Ethics Deep Dive: Synthesis		
Work on integration of old software elements and new software elements	Josh Werner	
Fix conduit and firmware connections	Aysen De La Cruz/Matthew Livesay	
User studies	N/A	Need to finish project before valuable user studies can be conducted.