

Team Weekly Report

Team: Bray IIoT Smart Solutions

Week: 8

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

Status Report

This last week we made significant progress towards the end goal of our project. We successfully connected the firmware elements of the project and have been able to test them using the torque bracket data spoofer. Because of this progress, we have had to re-evaluate our approach to the project and are likely going to have to increase our workload as we want to implement both the last teams project via the spoofer and our project with the auxiliary sensor. We are still facing major challenges with the firmware but since we have completed the pipeline for the firmware it is anticipated that visible progress will be made. For this week we are going to try and develop our project for the demo next week such that the web-app can show both the spoofed torque data and dummy generated auxiliary sensor data. This will prepare the application for integration with the firmware and the auxiliary sensors. Once these steps are completed the majority of our project will also be completed.

Current Status

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

Task	Task Lead	Status	Notes
Development of web application	Abdiel Rivera/Josh Werner/Alex Kearney	In Progress	
Development of transmitter firmware	Aysen De La Cruz	In Progress	
Work on integration of old software elements and new software elements	Josh Werner	In Progress	
Connecting LoRa board and conduit	Aysen De La Cruz	In Progress	
Connecting conduit to local PC	Matthew Livesay	Done	Found correct IP and got proof of data flowing from LoRa board to backend database
MQTT Configuration	Alex Kearney	In Progress	
Report: Evaluation Plan	Alex Kearney	Done	
Report modifications	Alex Kearney	In Progress	Modifications made.

			Waiting for additional feedback
Connecting LoRa board to conduit	Aysen De La Cruz/Josh Werner/Matthew Livesay	Done	
Got LoRa board connected to gateway and data transmission	Matthew Livesay	Done	
Understand legacy code for the firmware. It's a mess currently	Matthew Livesay Aysen De La Cruz	In progress	

2. What feedback has the team received? N/A

From Whom	Feedback	Next Steps

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
Development of transmitter firmware	Aysen De La Cruz	
Understand legacy code for the firmware. It's a mess currently	Matthew Livesay Aysen De La Cruz	
Report Modifications	Alex Kearney	
MQTT Configuration	Alex Kearney	
Work on integration of old software elements and new software elements	Josh Werner	