Individual Weekly Report

Name: Matthew Livesay
Team: Bray
Date: 4/7/25

Current Status

1. What did you **personally** work on this past week?

Task	Status	Time Spent
Worked on firmware	Still needs a little work but functions	2 hrs
Worked on fixing gateway issues	Probably done	3 hrs

Include **screenshots/graphics** to illustrate what you did this past week:

```
340  void Uplink_task(void){
341
342      //char uplink_dbg_display[96];
343      uint8_t lorawan_port;
344      if(uplink_count < 12 && delayed_uplink_check_flag){
345
346          delayed_uplink_check_flag = FALSE;
347          Usart_chk_for_msg(&uplink_msg_buffer[0], uplink_count);
348          lorawan_port = Uplink_determine_port(uplink_msg_buffer[PAYLOAD_CMD_INDEX]);
349          lorawan_app_send(&uplink_msg_buffer[PAYLOAD_PAYLOAD_START_INDEX], uplink_msg_buffer[PAYLOAD_LEN_INDEX]+2, lorawan_port);
350          UTIL_TIMER_SetPeriod(&Delayed_uplink_timer, 10000);
351          UTIL_TIMER_Start(&Delayed_uplink_timer);
352          uplink_count++;
353      }
354      else if(uplink_count >= 12){
355          uplink_count = 0;
356      }
```

```
431      I2C1_Init();              // SEEPROM, BME, NFC
432
433      USART1_UART_Init();       // DEBUG
434
435      Pygo_sensor_info_init();
436
437      NFC_task_init();
438      LoRaWAN_Init();
439      Uplink_task_init();
440
441      Usart_task_init(&huart1);
```

2. What problems did you run into? What is your plan for them?
   a. Gateway seemed to factory reset itself for some reason. We got some config information from Bray and the manufacturer to try and figure out why it happened.

3. What is the current overall project status from your perspective?
   a. Progress is starting to speed up

4. How is your team functioning from your perspective?
   a. Still functioning fine

5. What new ideas did you have or skills did you develop this week?
   a. Troubleshooting gateway config issues
   b. C firmware development

6. Who was your most awesome team member this week and why?
   a. Alex for grinding away on the report and working on the MQTT junk

Plans for Next Week

Work on poster
Work on report