RECOVERY TEAM REPORT

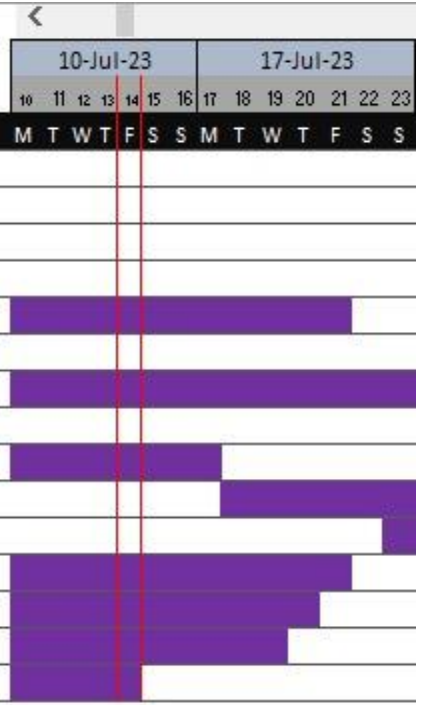
WEEK 11

Project Lead: Dr. Aoki

Project Start: Tue,2-May-2023

Display Week: 11

TASK	ASSIGNED TO	PROGRESS	START DATE	END DATE	DURATION
Introduction	N/A	100%	2-May-23	5-May-23	3
Change the piston cylinder to steel	E/T	100%	8-May-23	12-May-23	4
Implement the OTA updates to the system	V/C/B	100%	15-May-23	19-May-23	4
Rectifying the code for the piston test	S/B	100%	17-May-23	19-May-23	2
Design the Mechanism for holding the flight computer	B/E	70%	12-Jun-23	21-Jul-23	39
Design and fabrication of the ejection cap	B/E	90%	22-May-23	30-Jun-23	39
Determine the amount of crimson powder to be used	E/T	60%	22-May-23	24-Jul-23	63
Design and fabricate the PCB for the flight computer	P/C	100%	9-Jun-23	1-Jul-23	22
Design the mechanism to hold the piston in the rocket	B/E	95%	5-Jun-23	17-Jul-23	42
Test the ejection system with the nose cone		10%	18-Jul-23	23-Jul-23	5
Test how to log data from the flash memory		10%	23-Jul-23	30-Jul-23	7
Research the best time to eject the parachute	V/T	80%	22-May-23	21-Jul-23	60
Test the flight computer		60%	7-Jul-23	20-Jul-23	13
Test the communication system		20%	4-Jul-23	19-Jul-23	15
Video transmission from the rocket		20%	23-Jun-23	14-Jul-23	21

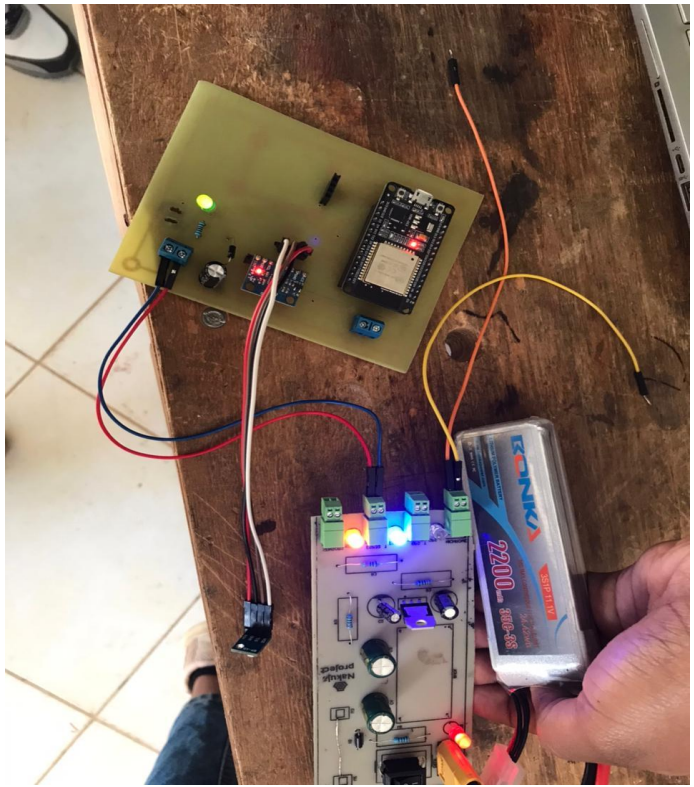


KEY:
B-Barbara
E-Erick
T-Tonny
P-Patrick

WEEK 10 OBJECTIVES

1. Acquire the Aluminium for the piston
2. Design the mechanism to hold the flight computer during the drone test
3. Determining the data acquisition for each sensor
4. Video transmission from the rocket

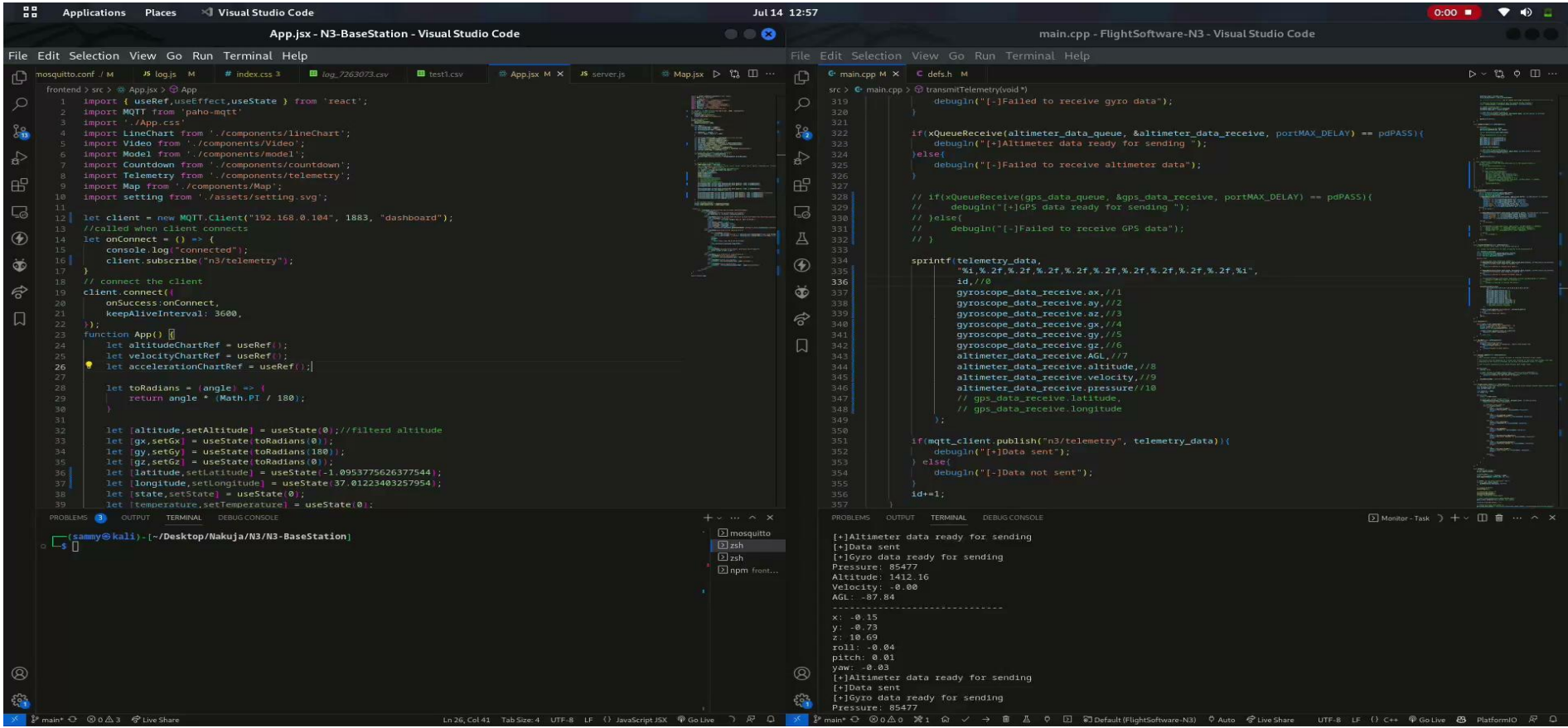
TESTING OF THE FLIGHT COMPUTER



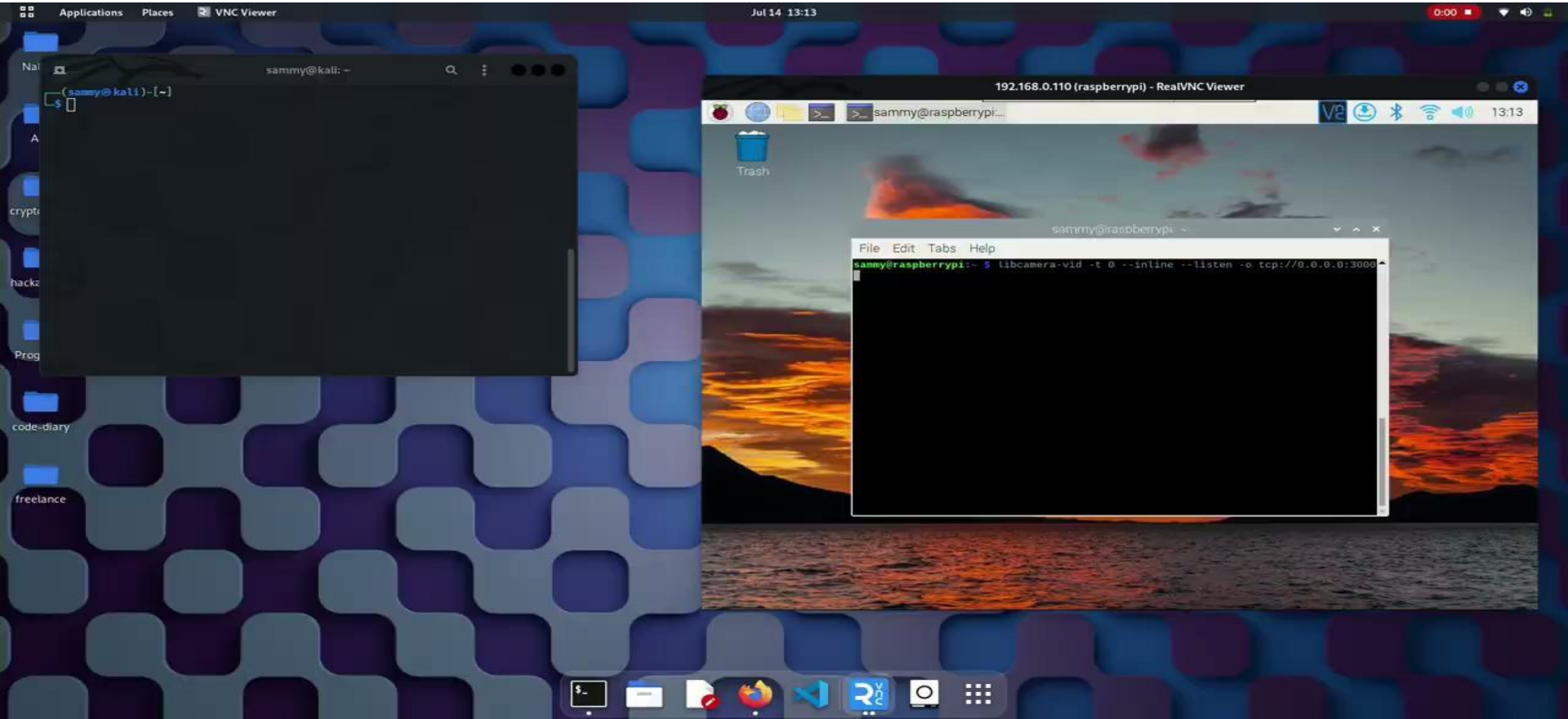
Testing of the flight computer

Power distribution board supplied by a battery

Data Transmission of the flight computer



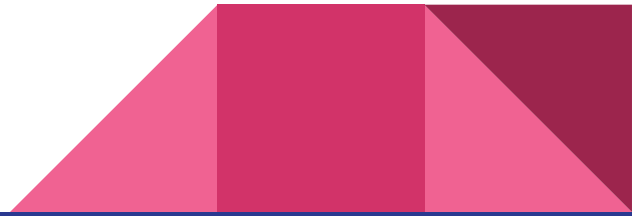
Video transmission from the rocket



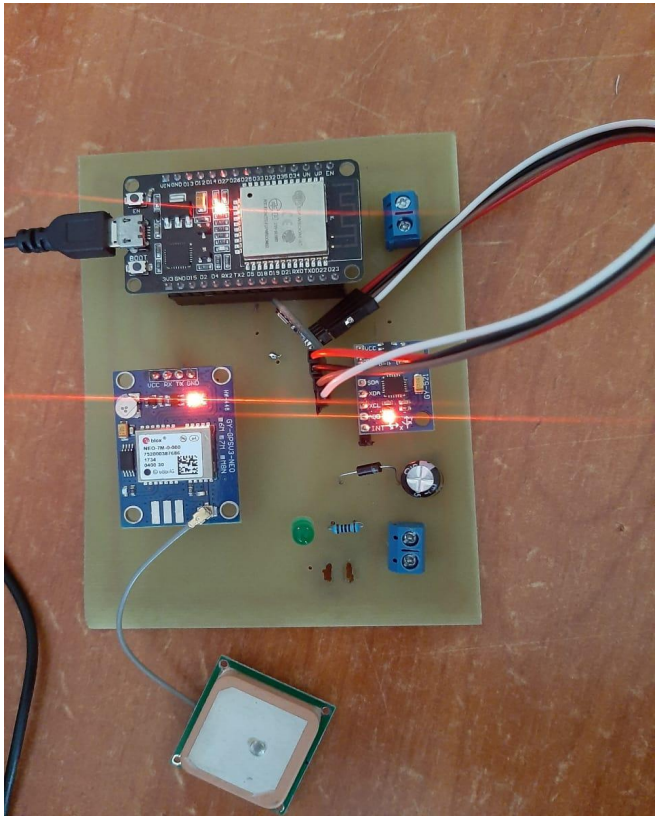
Integration of the GPS code to Flight software

Created a new task for the RTOS to handle reading GPS data from the sensor

We encountered a problem, the task caused the entire the flight software to lag



CHALLENGES FACED



Battery was unable to supply power to the flight computer for a long duration of time

Mechanism for holding the flight computer during drone test

NEXT WEEK TASK

Acquisition of Aluminum for parachute bay

Design the mechanism to hold the flight computer during the drone test

Conduct range test

Conduct drone test