Nakuja Internship 2022
Week 3
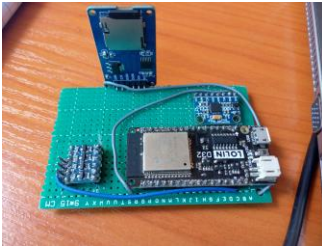# Progress report format
for team meeting

Name:FLIGHT CONTROL

Tasks completed last week

- [#29] Soldering of SD card on PCB
- [#24] Design of the reaction wheel

[#29] Soldering of SD card on PCB

Soldering of PCB involved microcontroller pin out identification and connecting the respective pins to the SD card pins

[#24] Design of the reaction wheel

This was done with the help of simulink(in progress)

Tasks in this week

- [#24] Design of the reaction wheel(completion)

- [#29] Logging data on SD Card
- [#25]Testing reaction wheel on test bench with current firmware
- [#27]Design mounting case

[#24] Design of the reaction wheel(completion)

This involves design optimization of the CAD model of reaction wheel and fabrication

[#29] Logging data on SD Card&[#25]Testing reaction wheel on test bench with current firmware

The two tasks will be done concurrently. The code for this is in progress

[#27]Design mounting case

Onset of the design

Timeline

Month	Intern week	Tasks
Jan		
	Week 1 (17th-21st)	Familiarising with the N1/N2 project Research on the design of reaction wheel
	Week 2 (24th-28th)	Soldering of prototype flight control PCB Design of the N2 reaction wheel
	Week 3 (31st-4th	Design of the N2 reaction wheel Logging of data onto the SD card Research on the mounting case and safety cage of the reaction wheel
Feb	Week 4	Design of the mounting case
	Week 5	Improve Kalman filter performance
	Week 6	Avionics bay design
	Week 7	