

Internship 2022

Progress report format
for Flight Control team

Name: FAITH CHELANGAT

Tasks completed last week

[#29] ...Writing a program to log data

- This week we worked on the logging of data program. This is done and we'll hopefully upload the data from our reaction wheel test for analysis before the end of the week
- However, we're doing research on how to use RTOS since SD card is not very efficient

[#] ...Fabrication of the reaction wheel

- The fabrication of the reaction wheel begun but still incomplete
- Some issues arose during the CNC process



Tasks in this week

- [#25] ... Retesting the reaction wheel with current firmware

~Due to issues which had been experienced during the previous testing, we'll retest the reaction wheel

~we hope to use an IR sensor to find the roll velocity of the reaction wheel

- [#26] ...Improving Kalman filter performance

Timeline

Month	Intern week	Tasks
Jan		
	Week 1	Familiarising with the N1/N2 project Research on the design of reaction wheel
	Week 2	Soldering of prototype flight control PCB
	Week 3	Design of the N2 reaction wheel
Feb	Week 4	Testing of the reaction wheel Finalising on the Design of reaction wheel
	Week 5	Design of safety cage Design mounting case Avionics bay design
	Week 6	Improvement of Kalman Filter Data logging
	Week 7	Launch of N2