

# Internship 2022

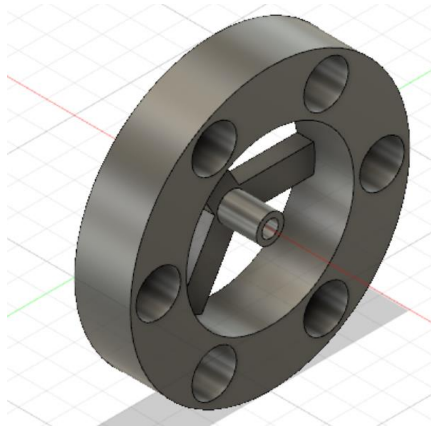
Progress report format  
for Flight Control team

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# Tasks completed last week

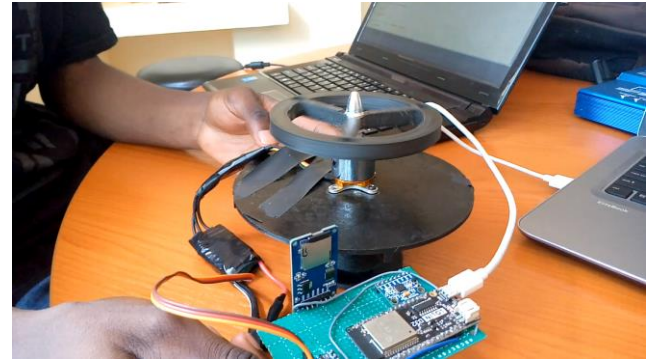
- [#24] ...Design of the reaction wheel

The drawing of the reaction wheel is done and weight determined



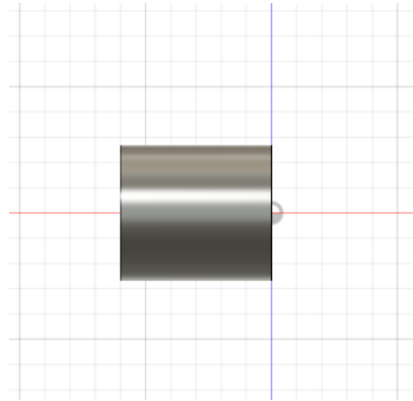
## [#25] ...Testing the reaction wheel

- During the test a couple of challenges were experienced but their solution are in the works
- The wheel could only rotate in the anticlockwise direction despite whatever direction
- The code we had could not sense any roll of our rocket



## [#27] ...Designing the safety cage for the reaction wheel(research)

- The onset on design of the safety cage
- Decisions to be made on how exactly it would look like



# Tasks in this week

- [#27] ...Design of safety cage
- [#24] ...Fabrication of the reaction wheel
- [#28] ...Design mounting case
- [#23] ...Avionics bay design

# 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 Data logging
	Week 6	Improvement of Kalman Filter
	Week 7	Launch of N2