

Internship 2022
Progress Report
Week 4

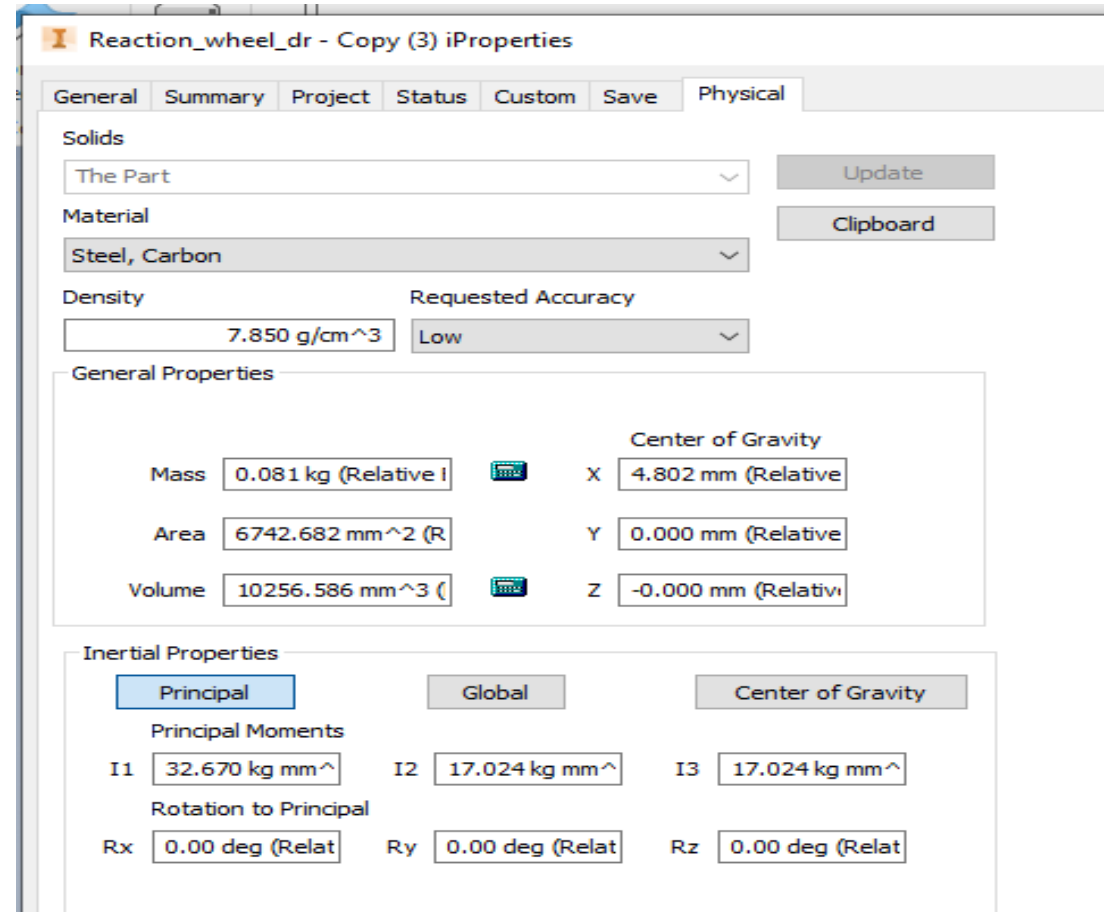
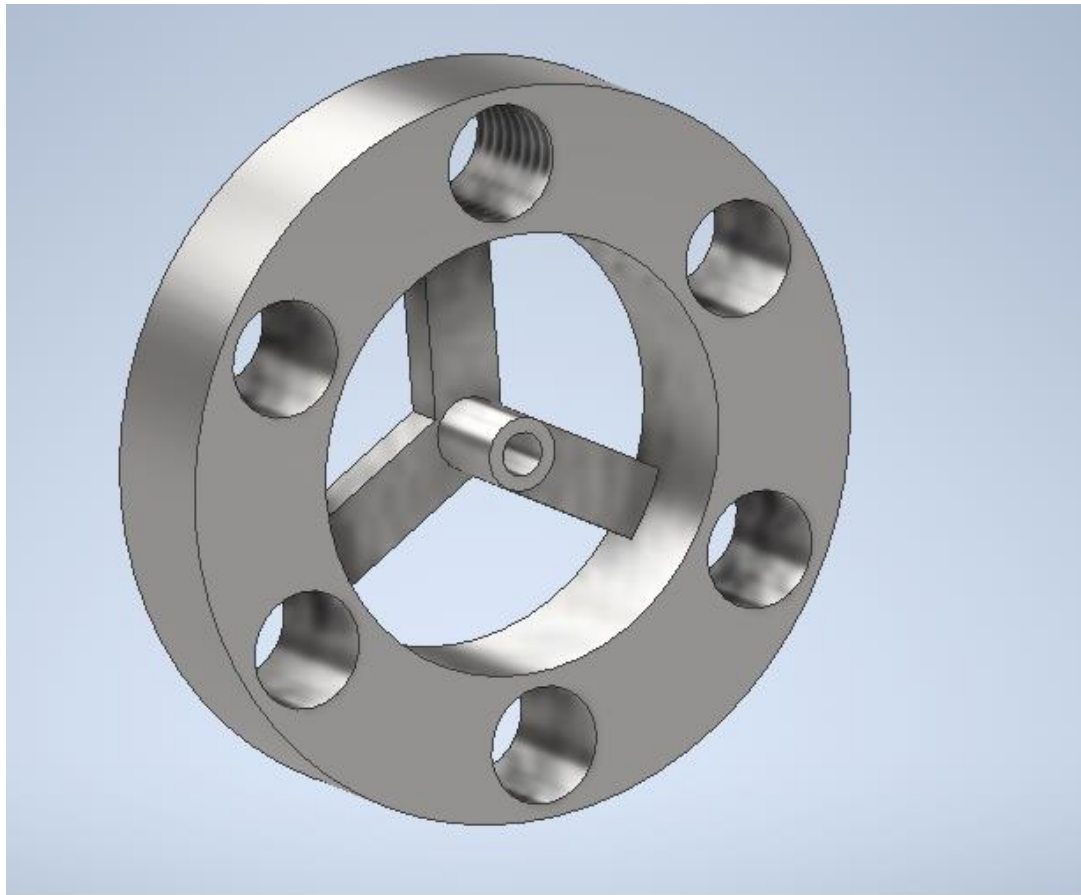
Name: Derrick Kirimi



Tasks completed last week

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

- Calculations for reaction wheel flywheel design.
- The material selected was steel.



[#25] ...Testing the reaction wheel



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

- This is to be mounted with screws from outside the rocket.

□ 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	Week	Tasks
Jan	Week1	Familiarising with the N1/N2 project Soldering of prototype flight control PCB Research on the design of reaction wheel
	Week 2	Soldering of prototype flight controller.
	Week3	Design of the mounting case and safety cage of the reaction wheel
	Week 4	Testing of the reaction wheel Finalising on the Design of reaction wheel
	Week 5	Flywheel fabrication. Design of safety cage Design mounting case Avionics bay design Data logging
	Week 6	Implementation of Kalman Filter