

# Jibebe Internship 2022

## Progress report Electric team

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# Tasks completed last week

[#14] Electrical system experiment – The motor was appropriately connected to the controller which was in turn connected to a 53.7v rectifier which powered the system in place of the lithium battery that we are yet to acquire. This was necessary to determine the behaviour of the motor at start up. In place of the throttle switch that we are yet to receive we use a potentiometer to vary the voltage supplied to the bldc controller

[#13] Determination of required electric components – Brainstorming was done by the team and we were able to contact a number of suppliers of the items needed that includes Throttle switch and lithium battery

[#5]BLDC Motor Acquiring- We decided to go with the already available 1200W motor.



# Tasks in this week

- [#4] Charge controller acquiring
- [#18] Analysis of performance curves
- [#30] Getting experimental characteristics of loading motor
- [#34] Determination of components for tractor and calculation of their values

# Timeline

Month	Intern Week	Tasks
Jan	Week 1	Design of required Battery Pack for Motor and Speed Control
	Week 2	Acquisition and procurement if required components
	Week 3	Testing of components fir tricycle and design of tractor electric system
Feb	Week 4	Integration of ordered parts to final tricycle implementation. Procurement of components for tractor
	Week 5	Solving miscellaneous issues arising from tricycle. Testing of tractor components
	Week 6	Testing of tractor components
	Week 7	Integration of final electric system of tractor
	Week 8	Integration with other subsystems