



INTERNSHIP 2022

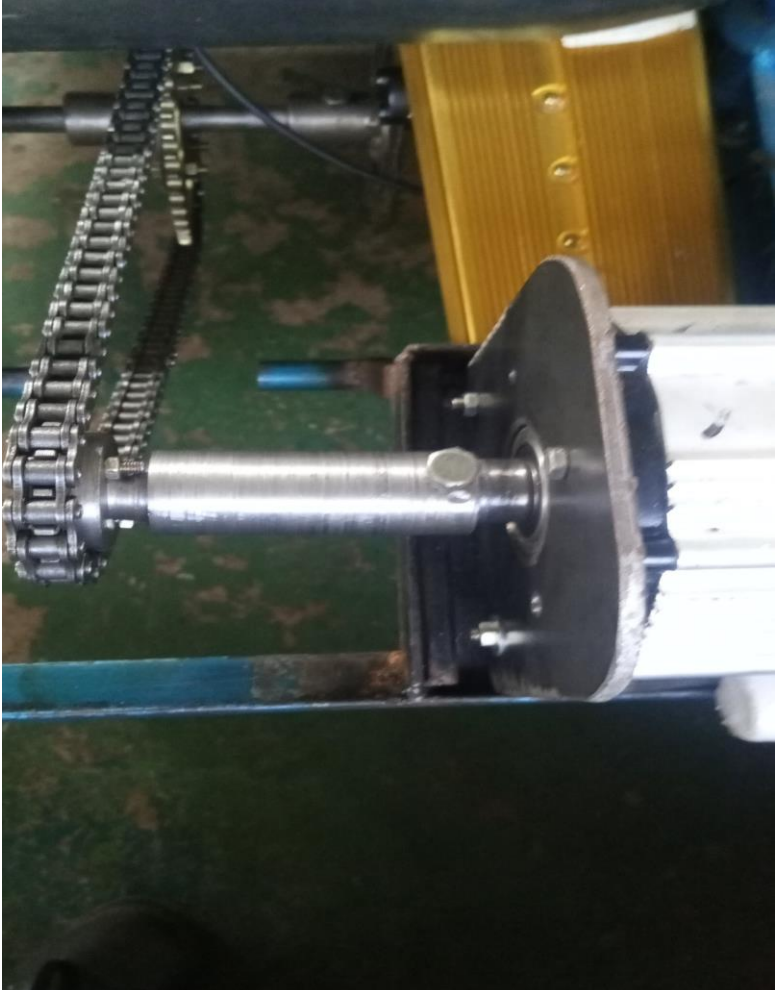
NAME: Brian Muindi

Tasks completed last week

[#91] Testing the E-tricycle (test ride around the workshop)

Issues arising from the test:

- Slip of the motor shaft coupling reducing the efficiency of transmission of the drive
 - ✓ Creating a recess (flattened area) on the motor shaft
 - ✓ Increasing contact pressure generated by the grab screw



Tasks in this week

[#90] Aesthetic finishing of E-tricycle

Painting of the tricycle requires disassembly of some components or covering them

[#31] Assembly of the E-tricycle

Further testing of the transmission system through test rides

TIMELINE

Month	Intern week	Tasks
Jan	Week 1	Taking measurements and 3D modelling of the tricycle
	Week 2	Identification of parts Design of chain drive Shaft design Disassembly of the tricycle
Feb	Week 3	Acquisition of parts Fabrication of tricycle components Literature review on E-tractors

	Week 4	Identification of parts to be replaced on the shujaa tractor Calculation of power requirements for the shujaa tractor Measurement of chassis
	Week 5	Design of various transmission components 3D modeling of the Shujaa tractor
	Week 6	Vibration and stress analysis Acquisition of parts for the tricycle
March	Week 7	Design of the transmission system of shujaa tractor Fabrication of motor shaft attachment for the tricycle Fabrication of motor housing
	Week 8	Final fabrication of parts for the tricycle Assembly of the E-tricycle Design and acquisition of the gearbox (shujaa tractor)