## Internship 2022

# Progress report on Etricycle and Shujaa tractor

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## Tasks completed last week

[#32] Acquisition of parts

> Flange couplings



## Tasks completed last week

> [#31] Fabrication and assembly of E tricycle

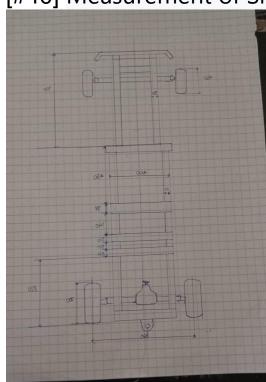


### Tasks completed last week

- > [#41]Identification of parts to be replaced on the Shujaa tractor
  - Fuel tank-battery pack
  - o Engine-motor
  - Gearbox

#### Tasks in this week

> [#40] Measurement of Shujaa Tractor chassis



#### Tasks in this week

- > [#42] 3D modeling of the chassis
- > [#33] Calculation of power requirements for the Shujaaa tractor
- > [#48]Design of motor mounting and placement on the E-tricycle

#### Timeline

	Month	Intern week	Tasks	
	Jan	Week 1	Taking measurements and 3D modeling of the tricycle Identification of parts	
		Week 2	Design of chain drive, Shaft design Disassembly of the tricycle	
	Feb	Week 3	Acquisition of parts Fabrication and assembly of the tricycle Literature review on e-tractors	
		Week 4	Identification of parts to be replaced 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	
	March	Week 7	Fabrication and assembly of Shujaa tractor	
		Week 8	Testing and performance analysis	