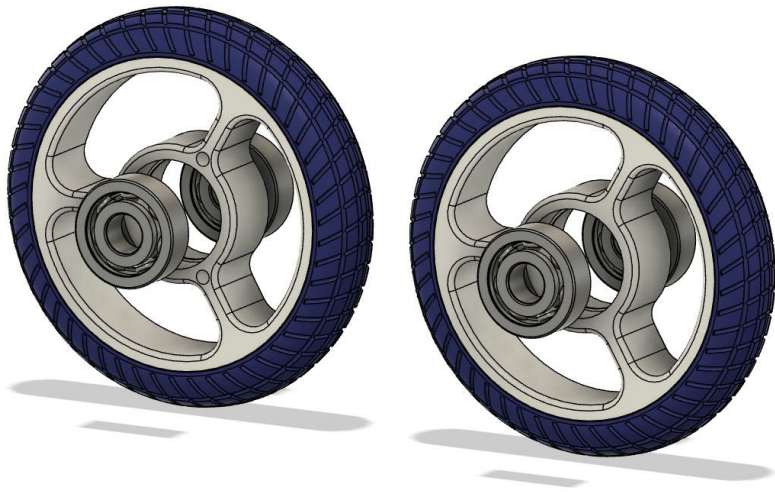
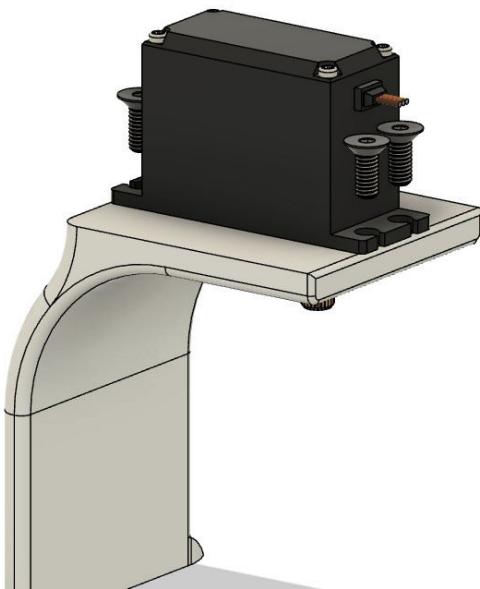


Self-balancing bike assembly guide

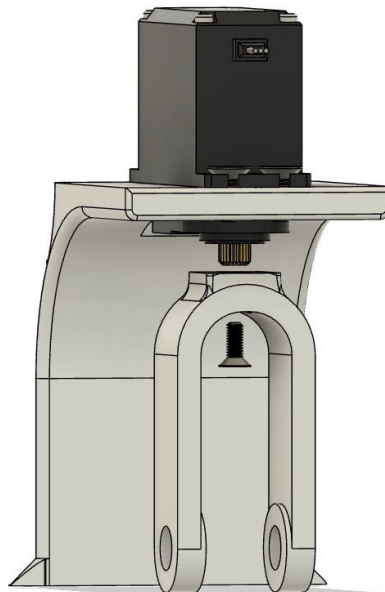


1. Slide the tyres onto the wheel rims

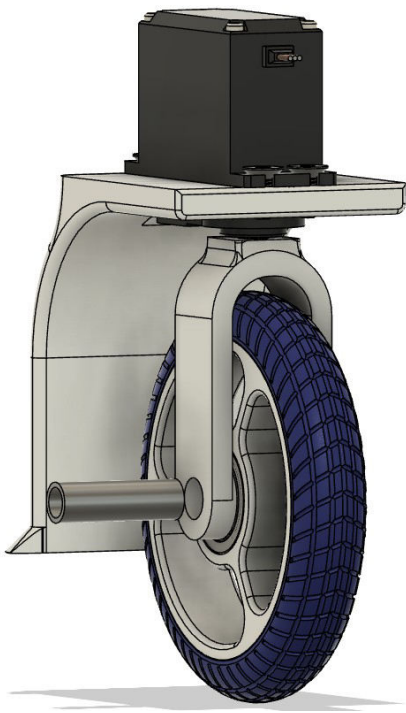
2. Put 2 608 bearing in each wheel



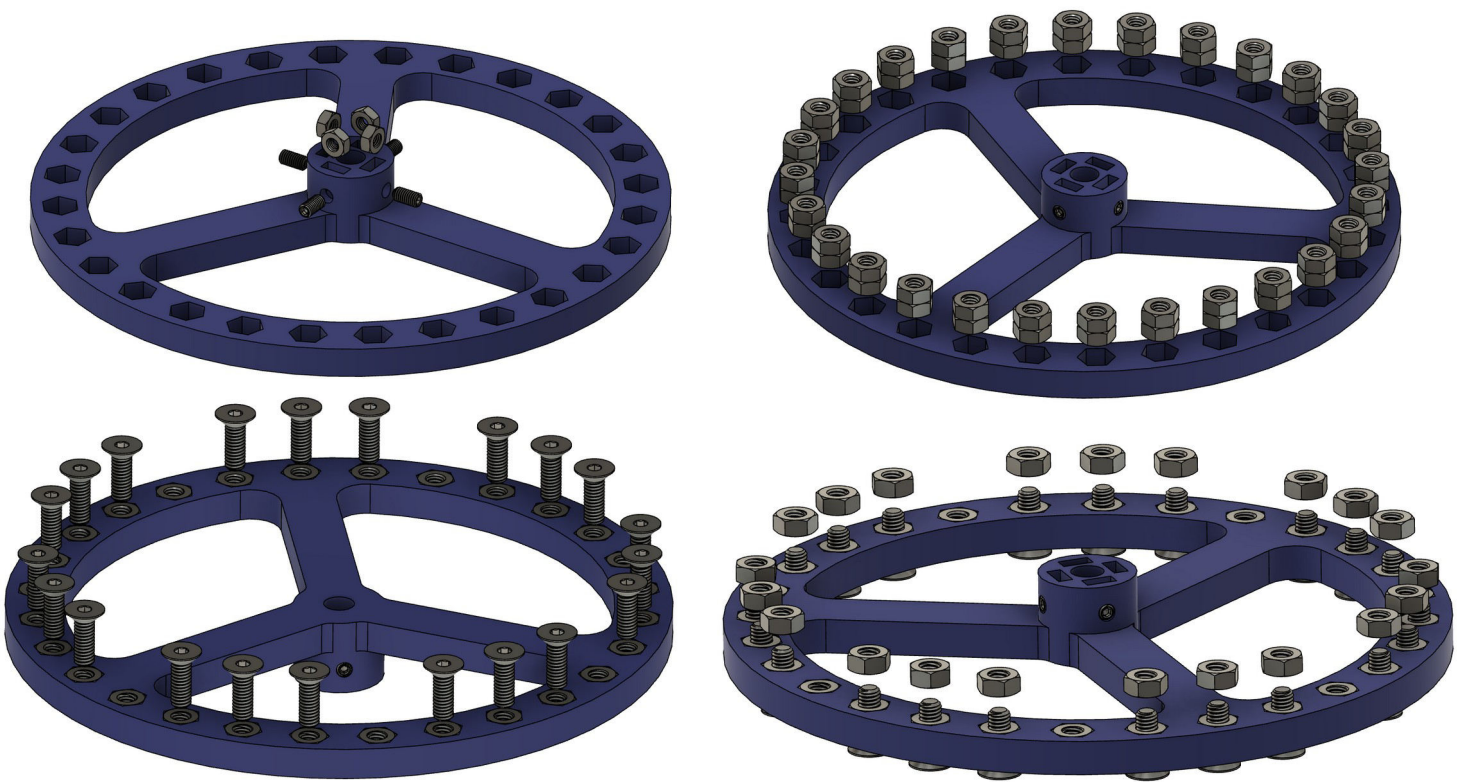
3. Screw the servo in place using 4 M4 10mm screws



4. Put the servo in its middle position and screw the front fork to the servo output with a M3 8mm screw



5. Pass the 26mm rod through the fork and wheel to secure the wheel.

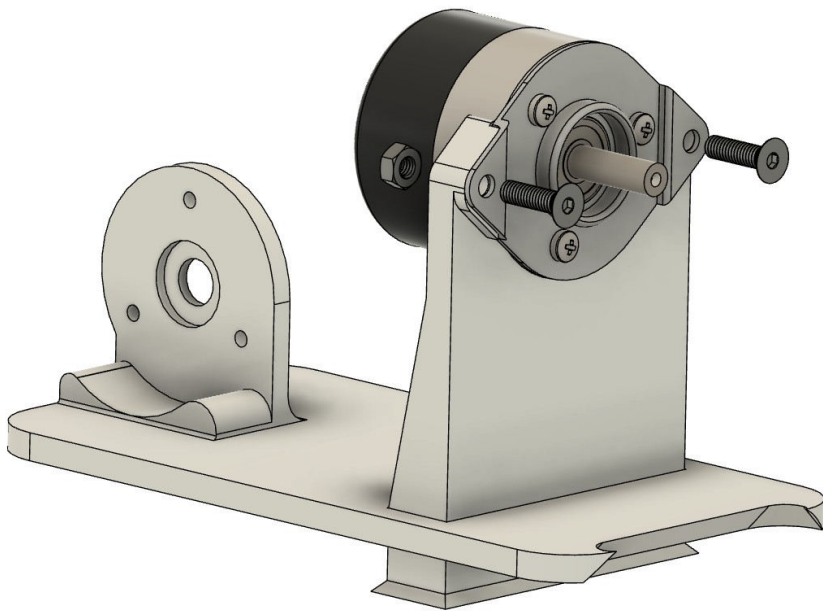


6. Put 4 M3 nuts and 6mm grub screws into their designated holes

7. Put 56 M4 nuts into the holes on the reaction wheel

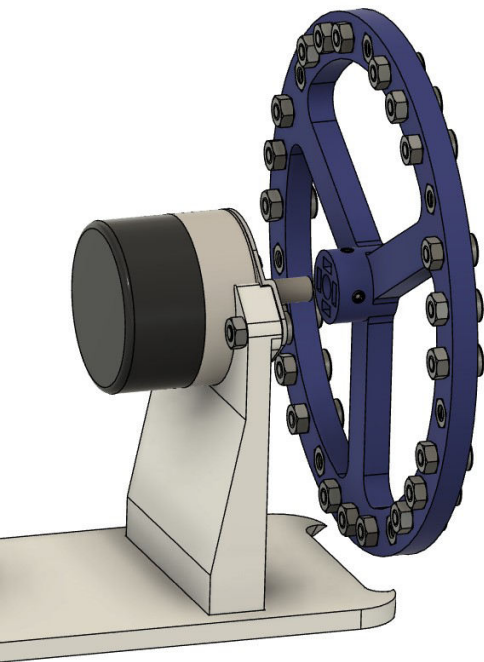
8. Screw 21 M4 12mm screws into the nuts in groups of three

9. Add the other 21 M4 nuts (you can change the quantity to change the weight if needed)

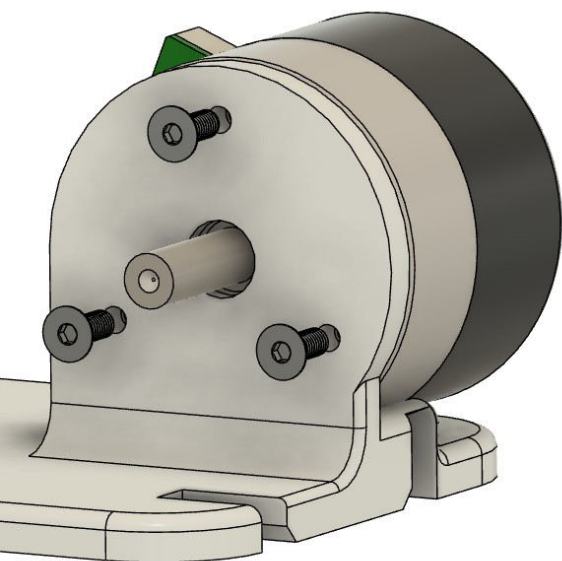


10. Pass the motor holder through the hole in the frame from underneath and glue it in place

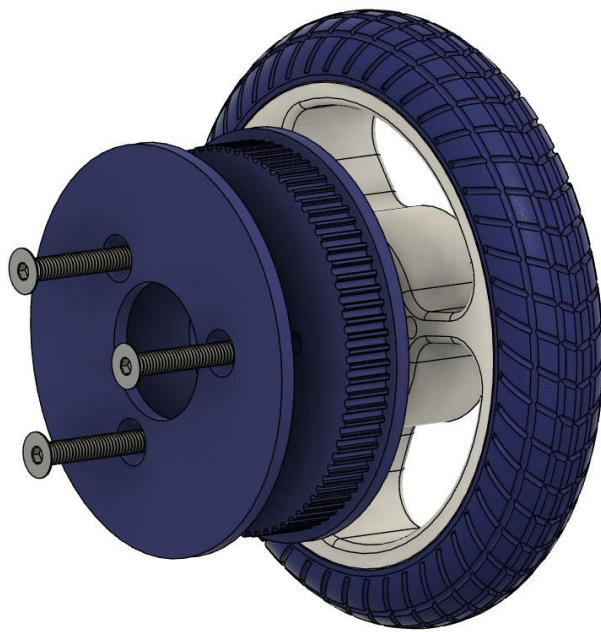
11. Screw the motor in place using 2 M4 15mm screws and 2 M4 nuts



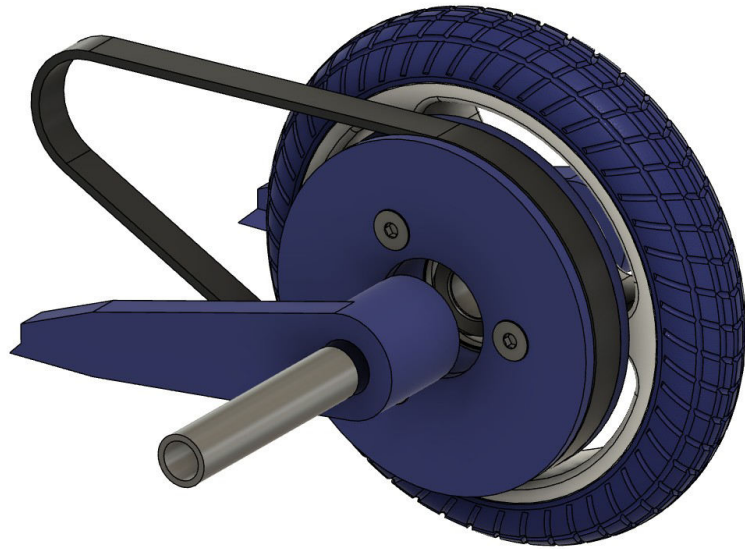
12. Attach the reaction wheel to the motor output, by tightening the grub screws



13. Remove the metal mounting plate of the rear motor and screw the motor directly to its mount using 3 M3 8mm screws

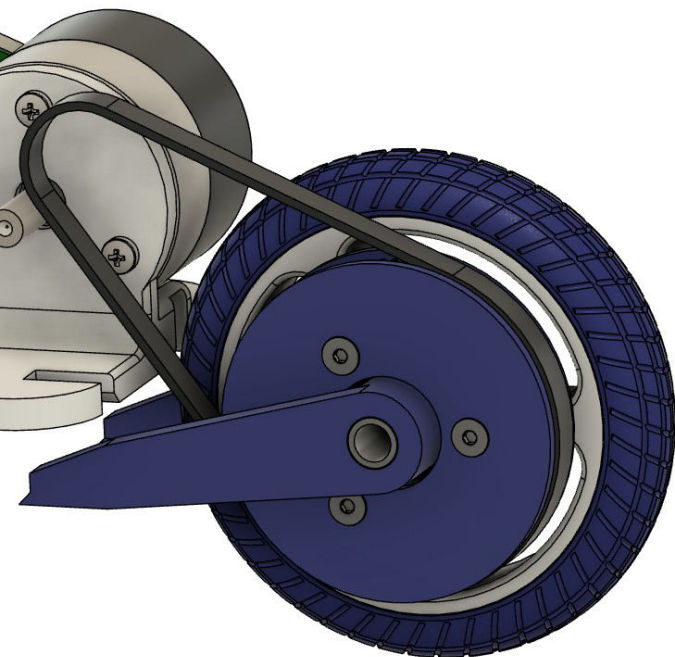


14. Screw the pulley and its top to the rear wheel using 3 M3 25mm screws

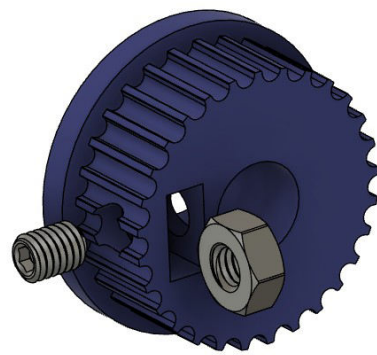
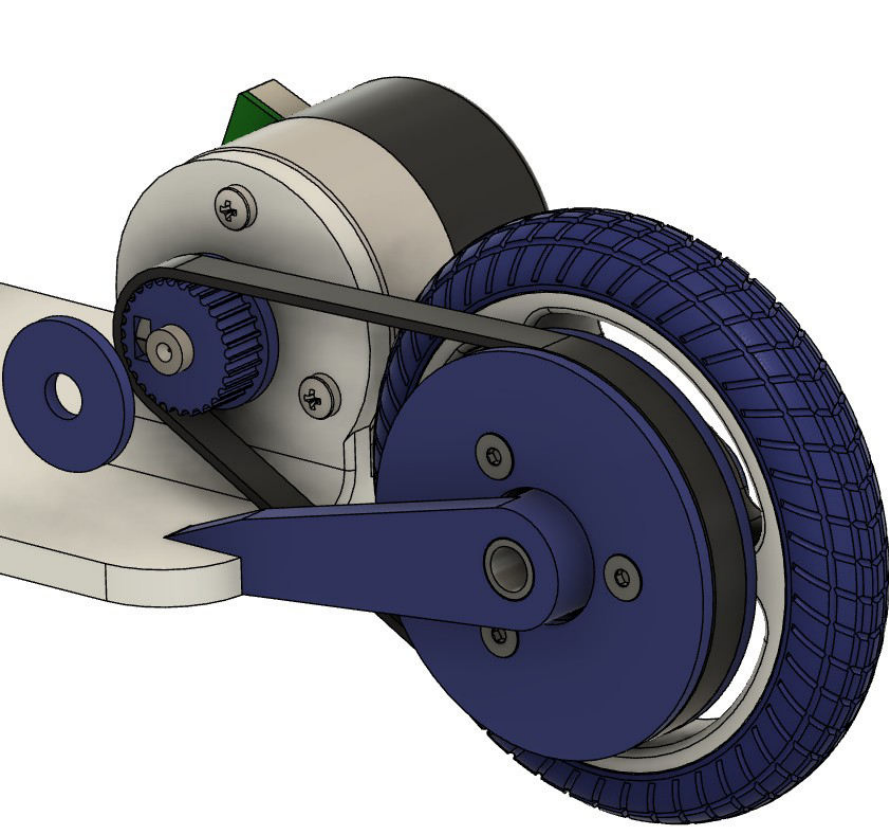


15. pass the 38mm rod through the rear left, the right shift fork and wheel

16. Already put the gt2 belt in place, since when the assembly is glued to the frame you won't be able to



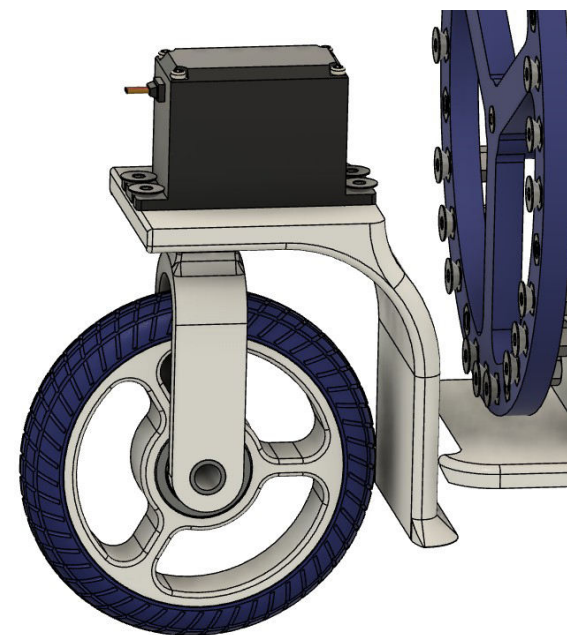
17. Glue the rear wheel assembly to the frame



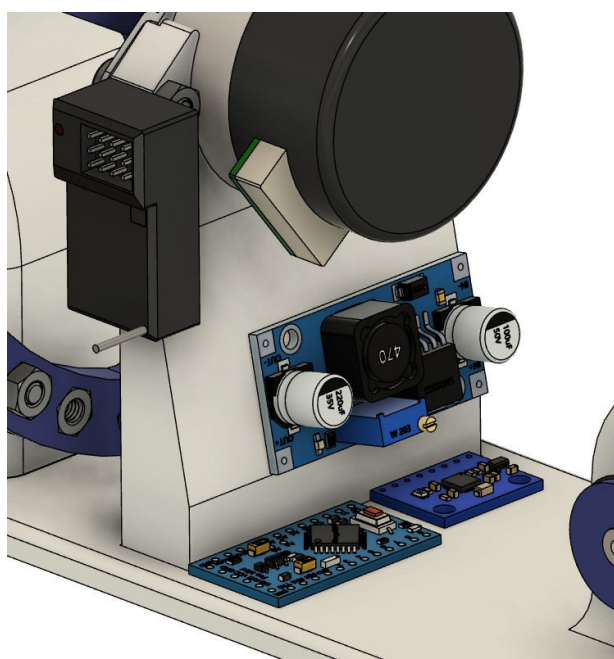
18. Put a M3 nut and a M3 4mm grub screw into their holes

19. Tighten the pulley to the motor output shaft

20. Slide the belt onto the pulley and glue the top on with superglue



21. Glue the front wheel assembly to the frame with superglue



22. Arrange the electronics as you prefer(depends on the battery size). The layout in the reference picture worked the best for me

23. Wire everything together, as shown in the wiring diagram