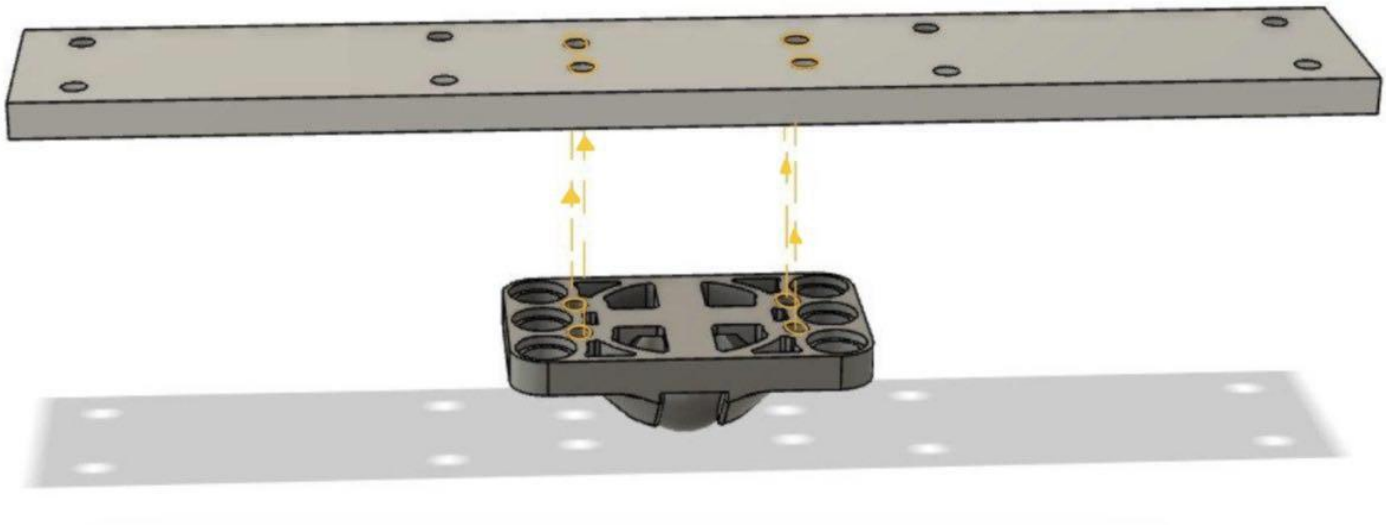
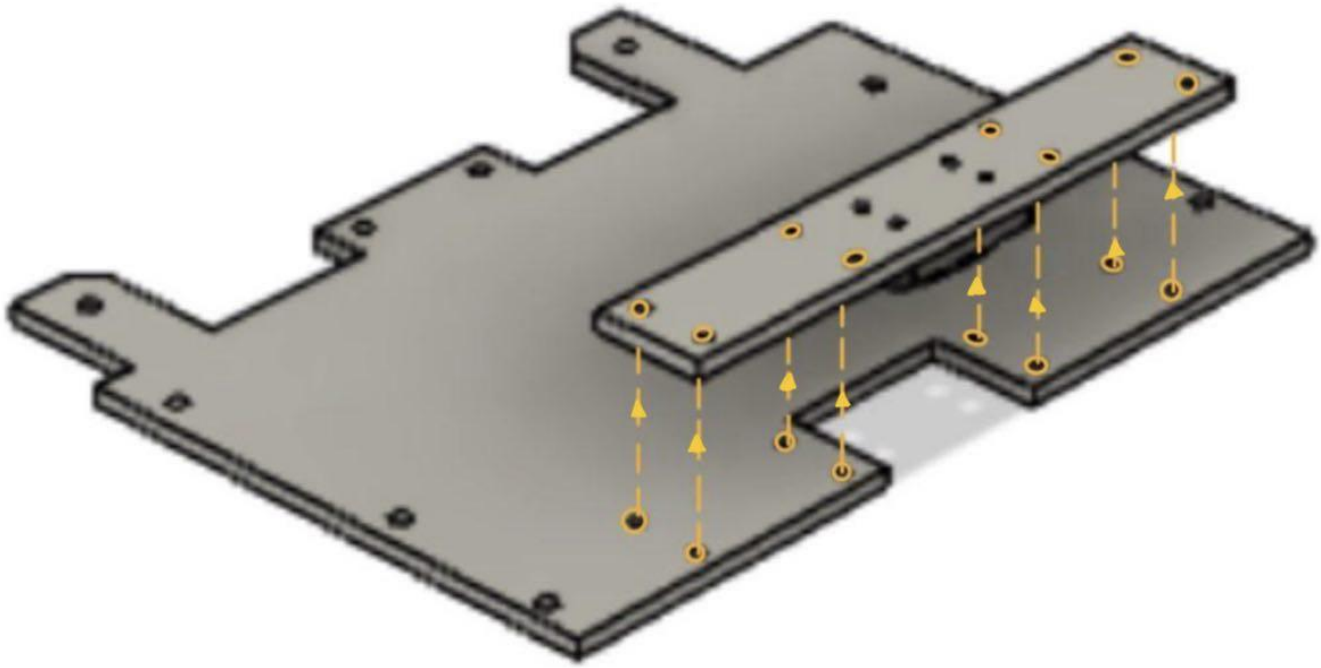
Screws are inserted in the direction of the arrow ▸ (i.e. from the flat base of the triangle to the tip)
Dotted line indicates that the centre of the circles are along the same line.

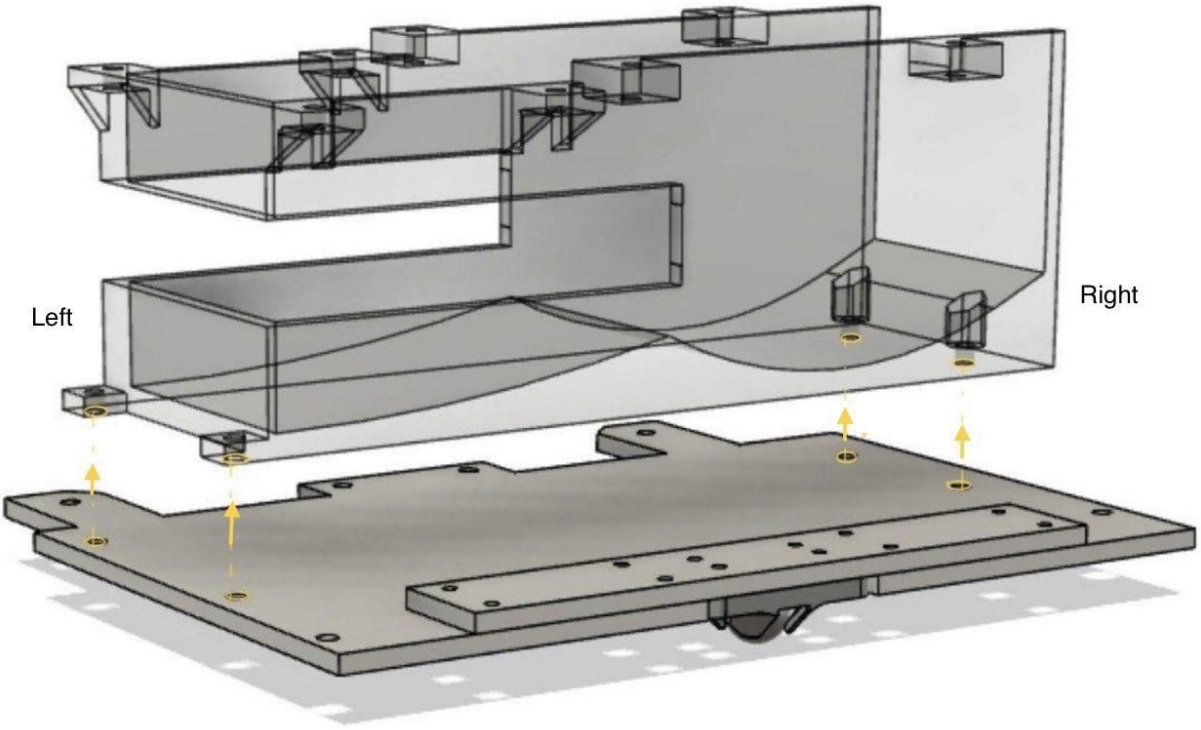
1. 4 sets of M2x10 screws, washers and M2 nuts



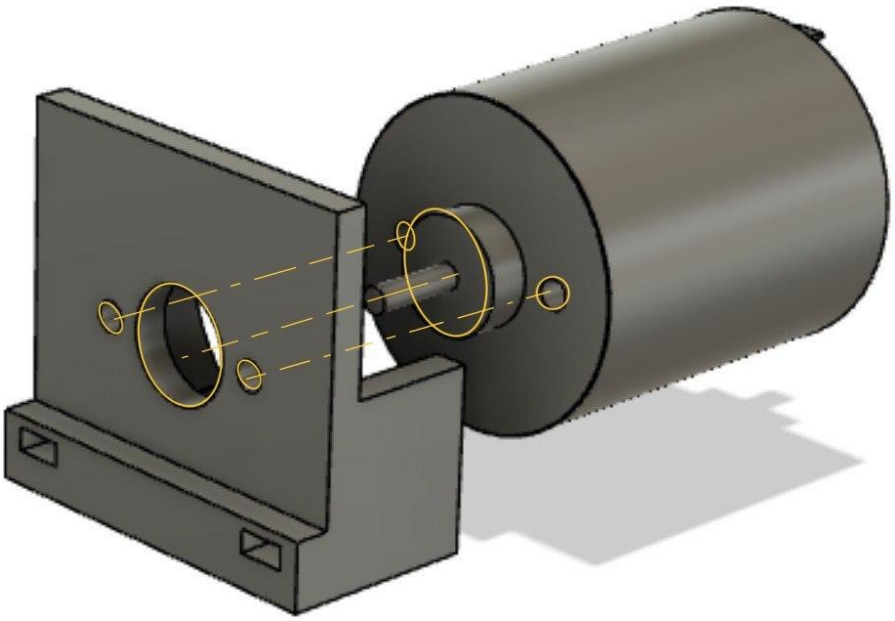
2. 8 sets of M2x10 screws, M2 washers and M2 nuts



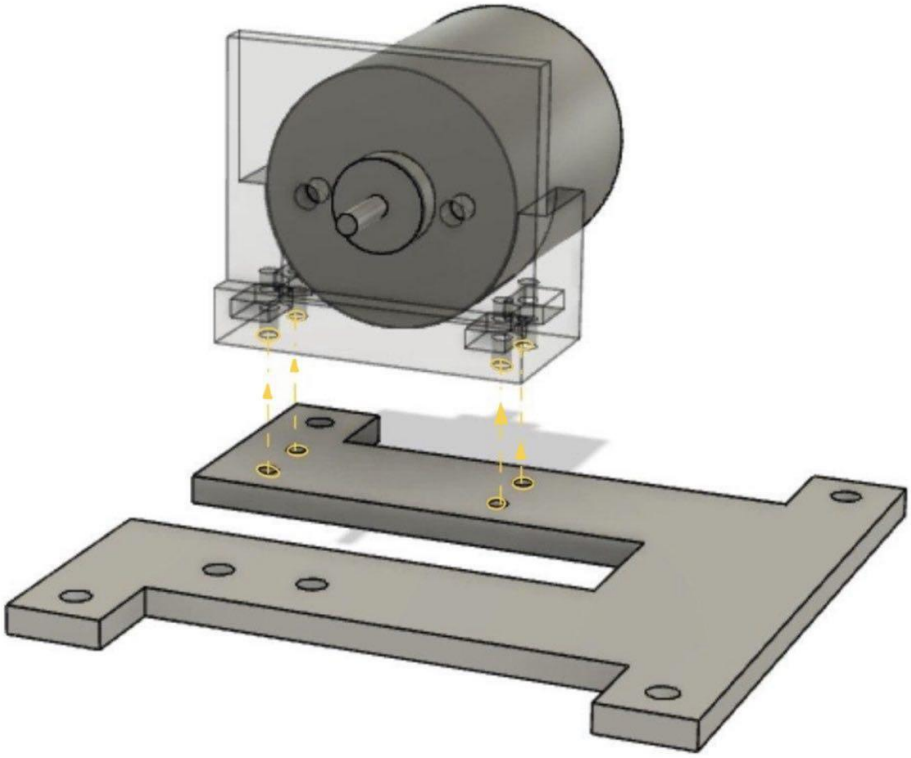
3. 2 sets of M2x15 screws and M2 nuts for left two holes and 2 sets of M3x15 screws and M3 nuts for right two holes



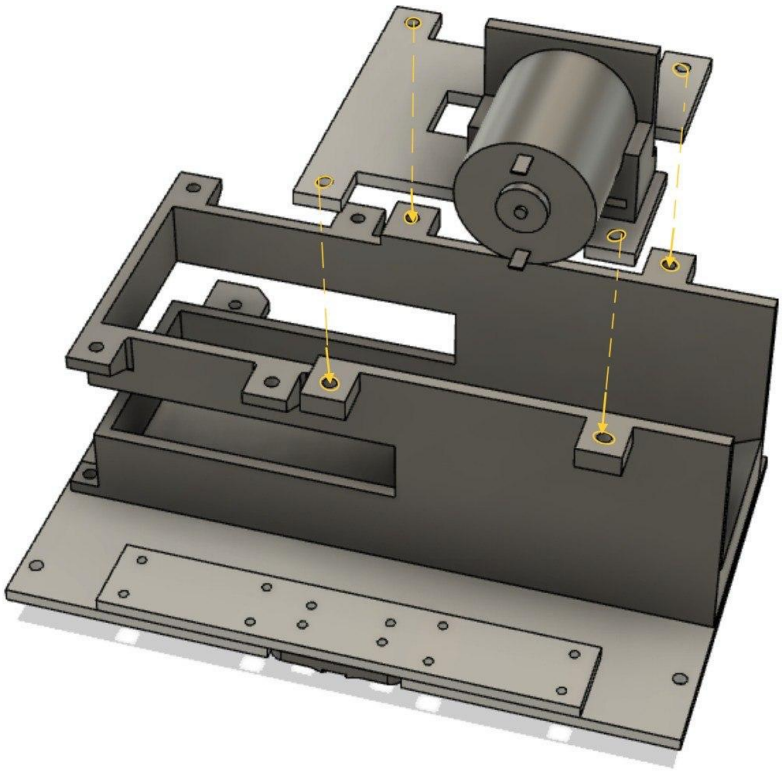
4. 2 M3x10 screws



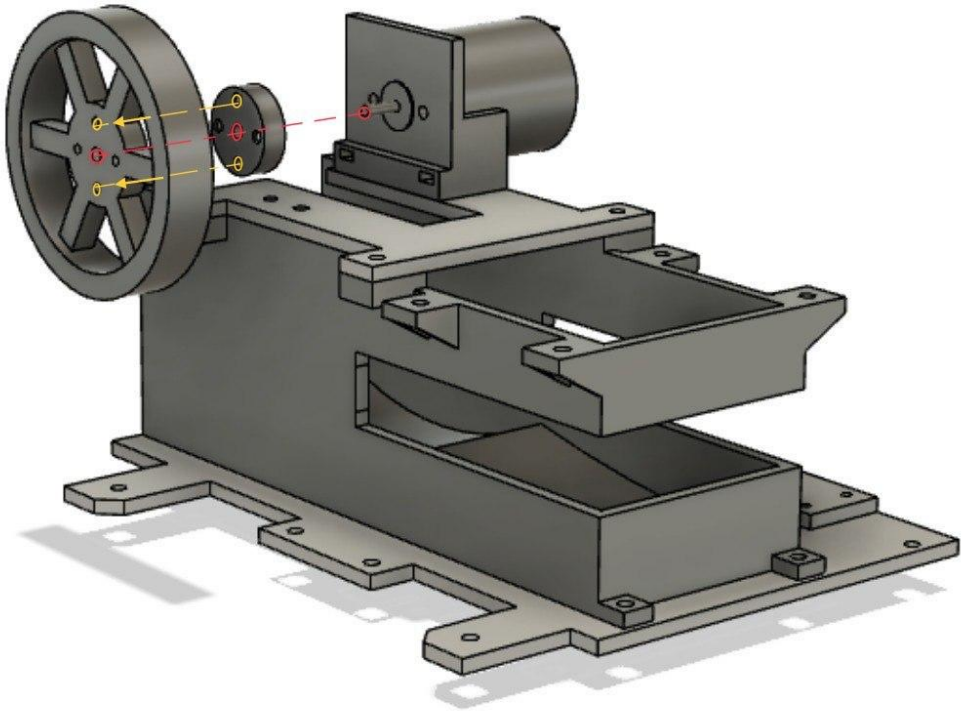
5. 4 sets of M3x15 screws and M3 nuts



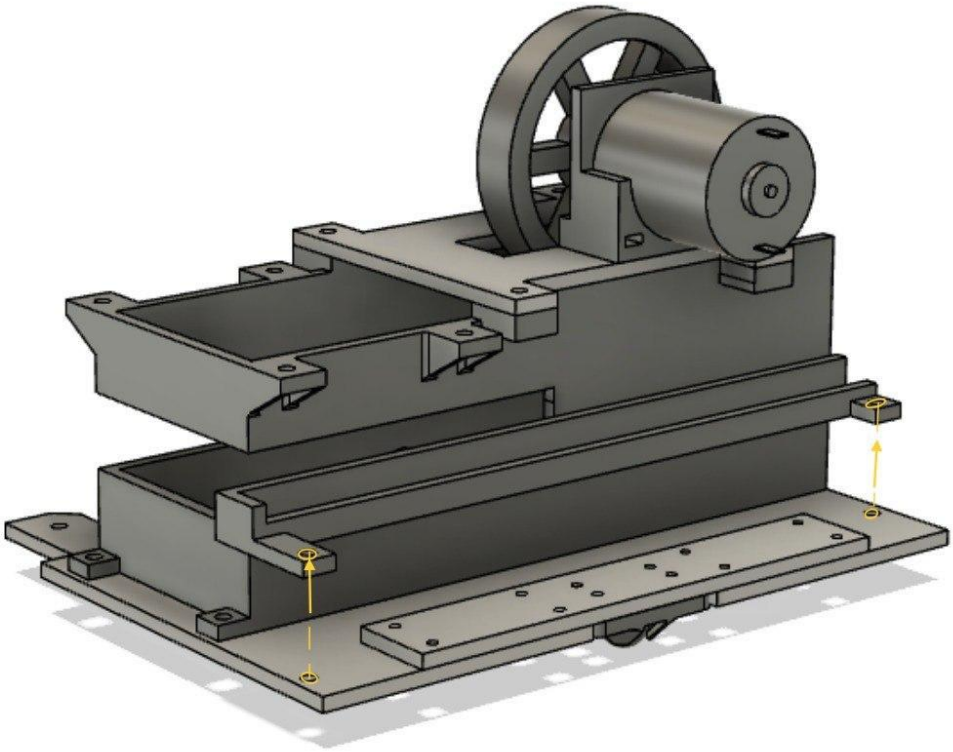
6. 4 sets of M3x15 screws, washers and M3 nuts



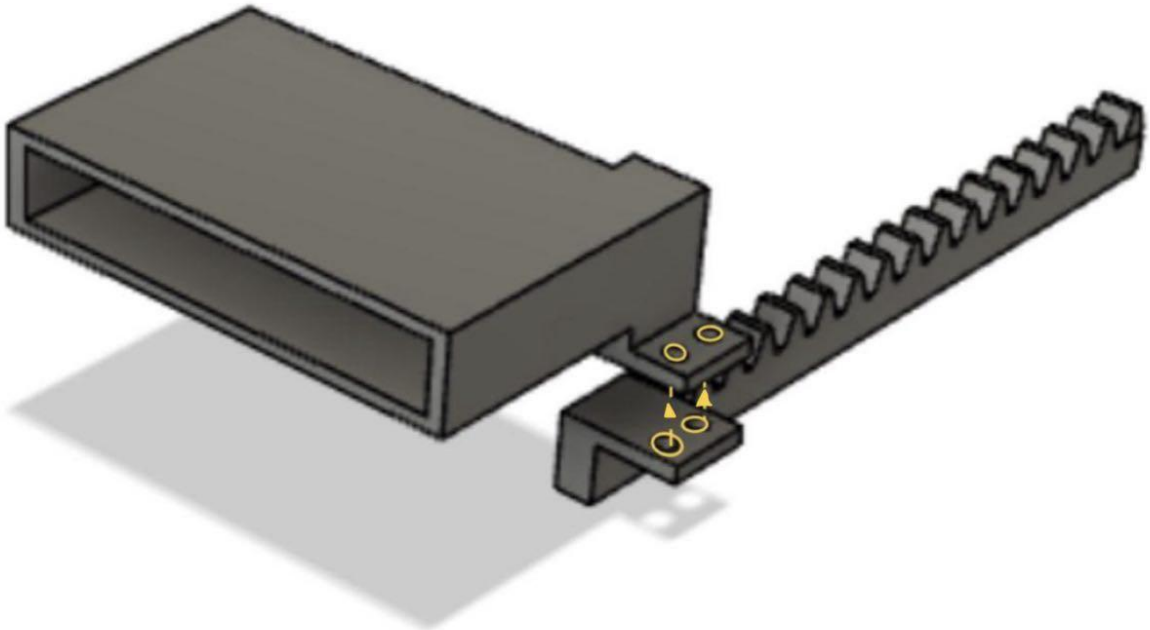
7. 2 sets of M3x15 screws and M3 nuts



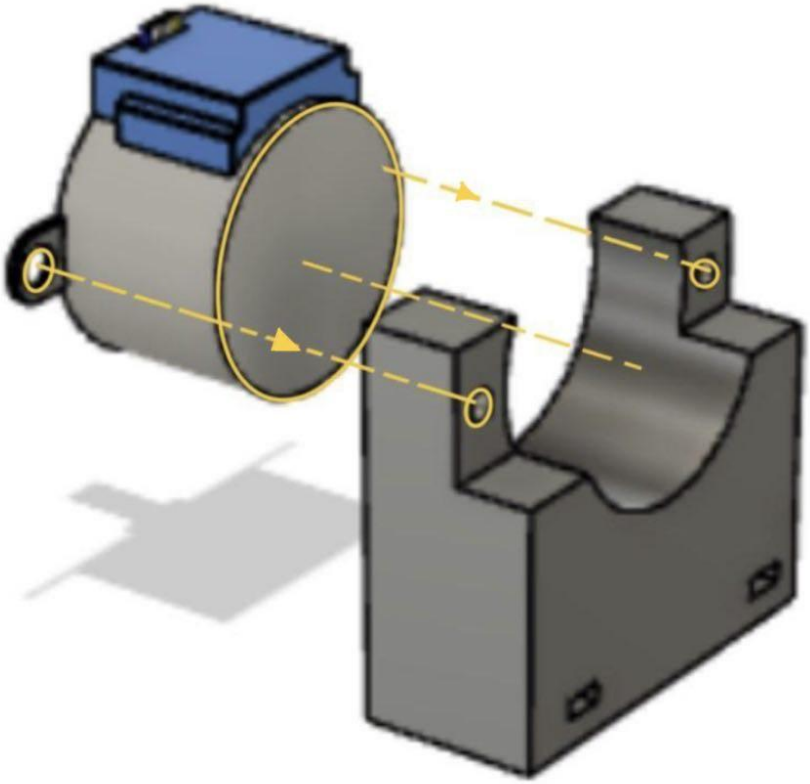
8. 2 sets of M3x15 screws and M3 nuts



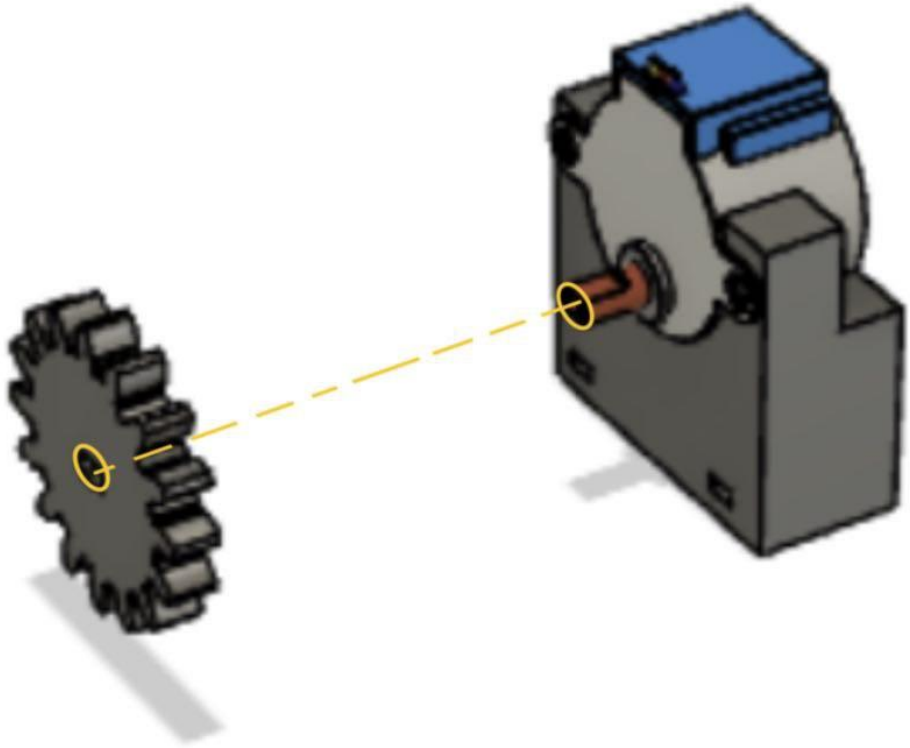
9. 2 sets of M3x15 screws and M3 nuts



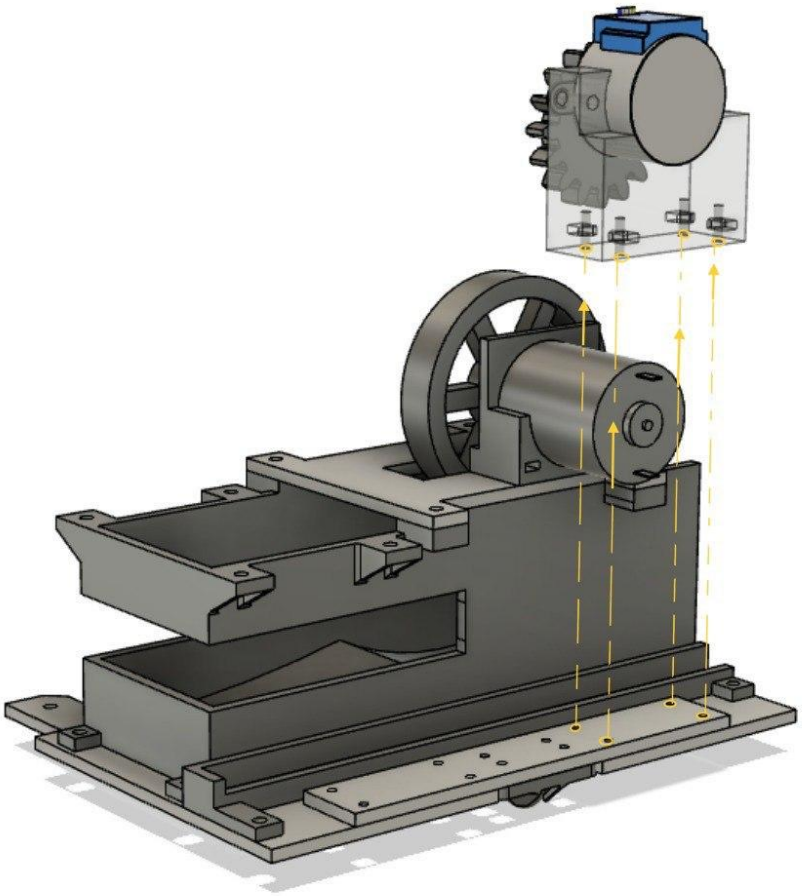
10. 2 sets of M3x15 screws and M3 nuts



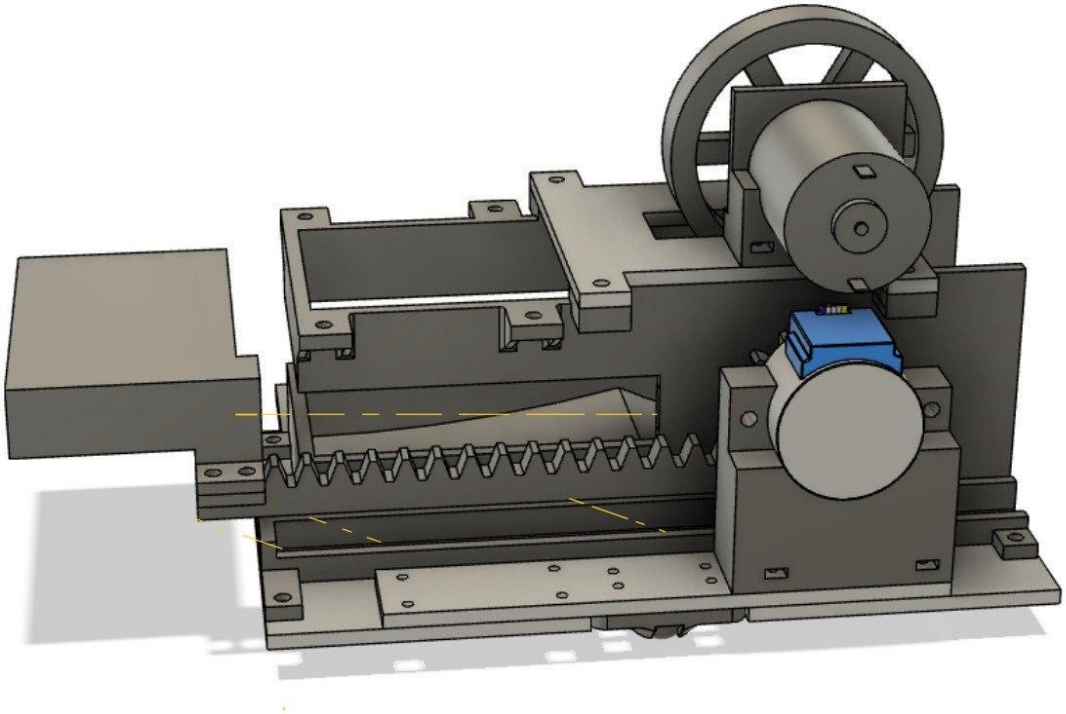
11. Attach pinion onto stepper motor



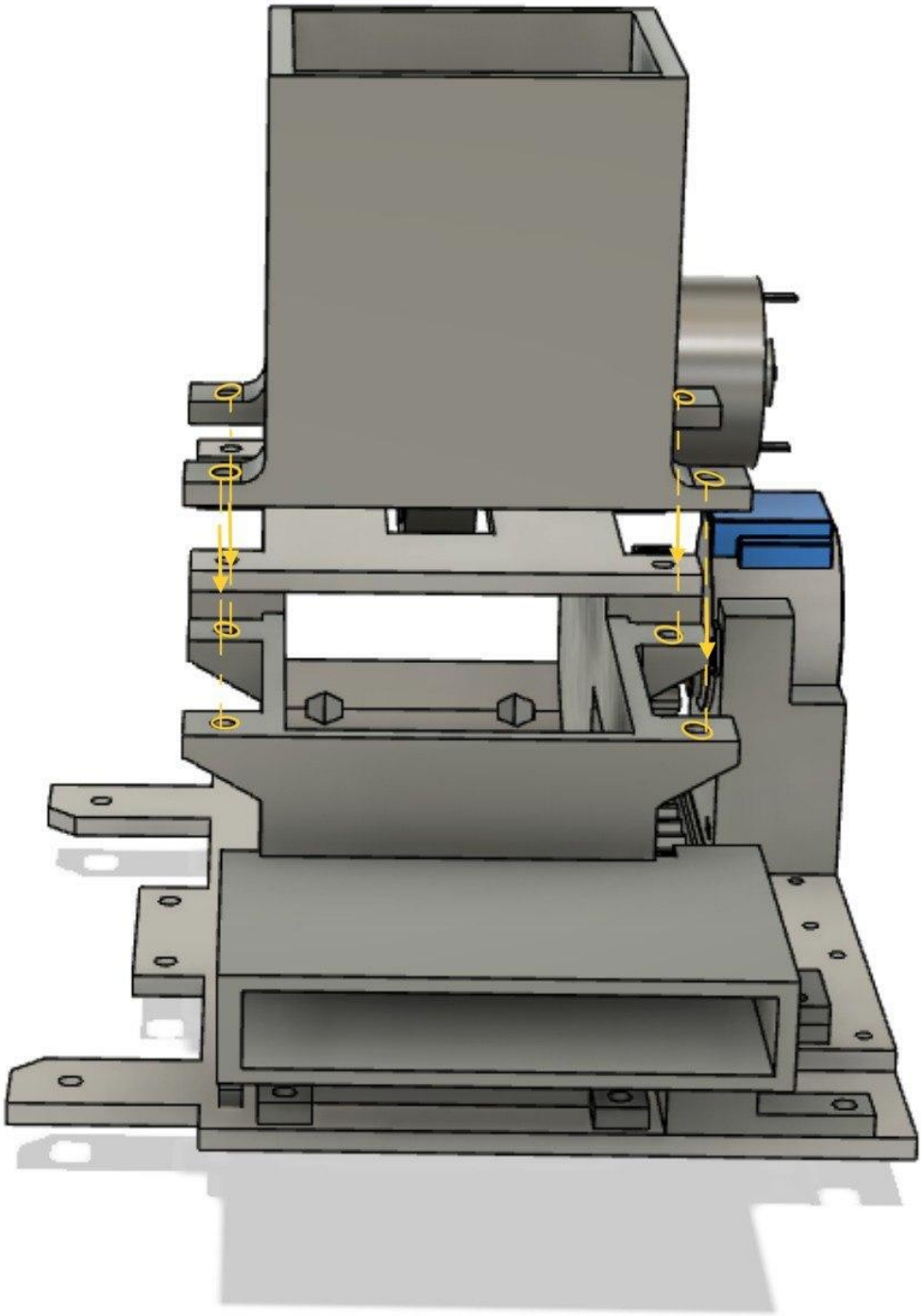
12. 4 sets of M2x15 screws and M2 nuts



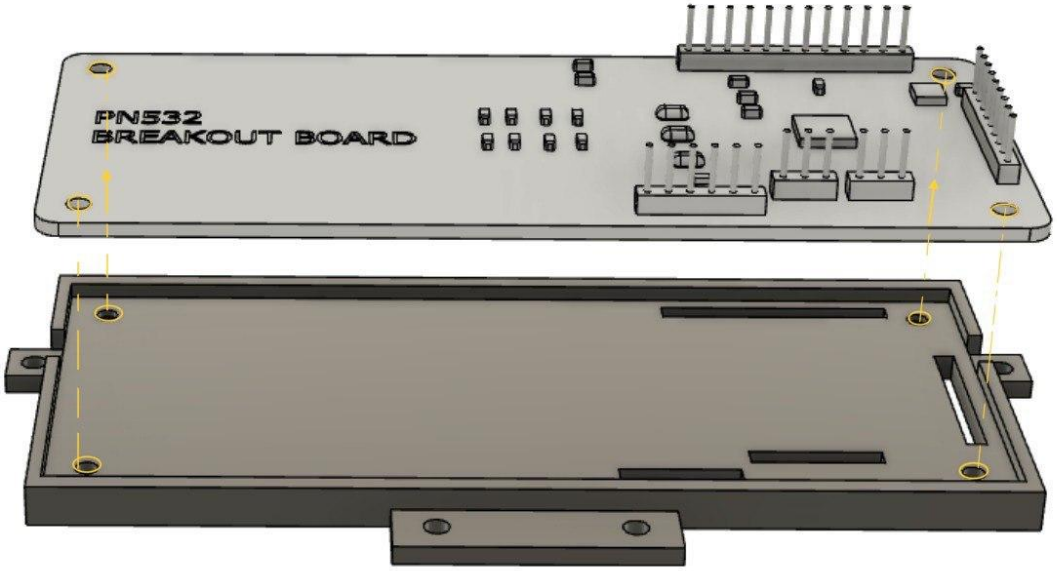
13. Rack to pinion



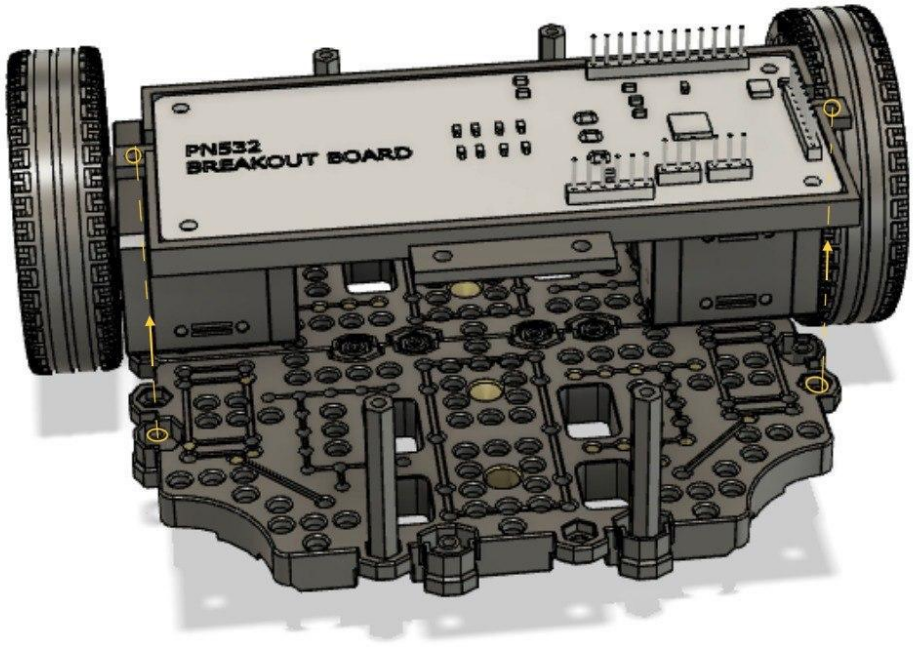
14. 4 sets of M3x15 screws and M3 nuts



15. 4 sets of M2x10 screws and M2 nuts

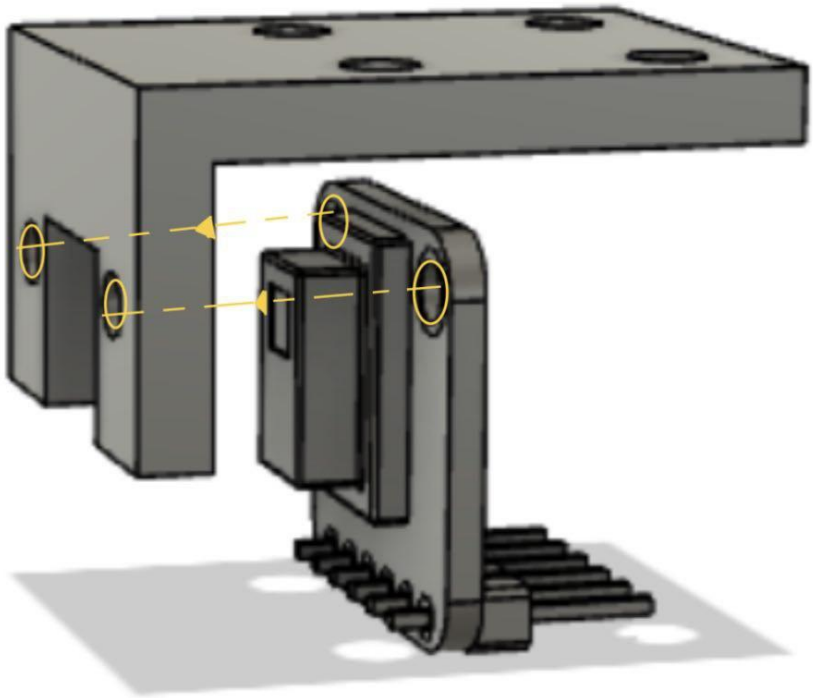


16. 2 sets of M2x15 screws and M2 nuts

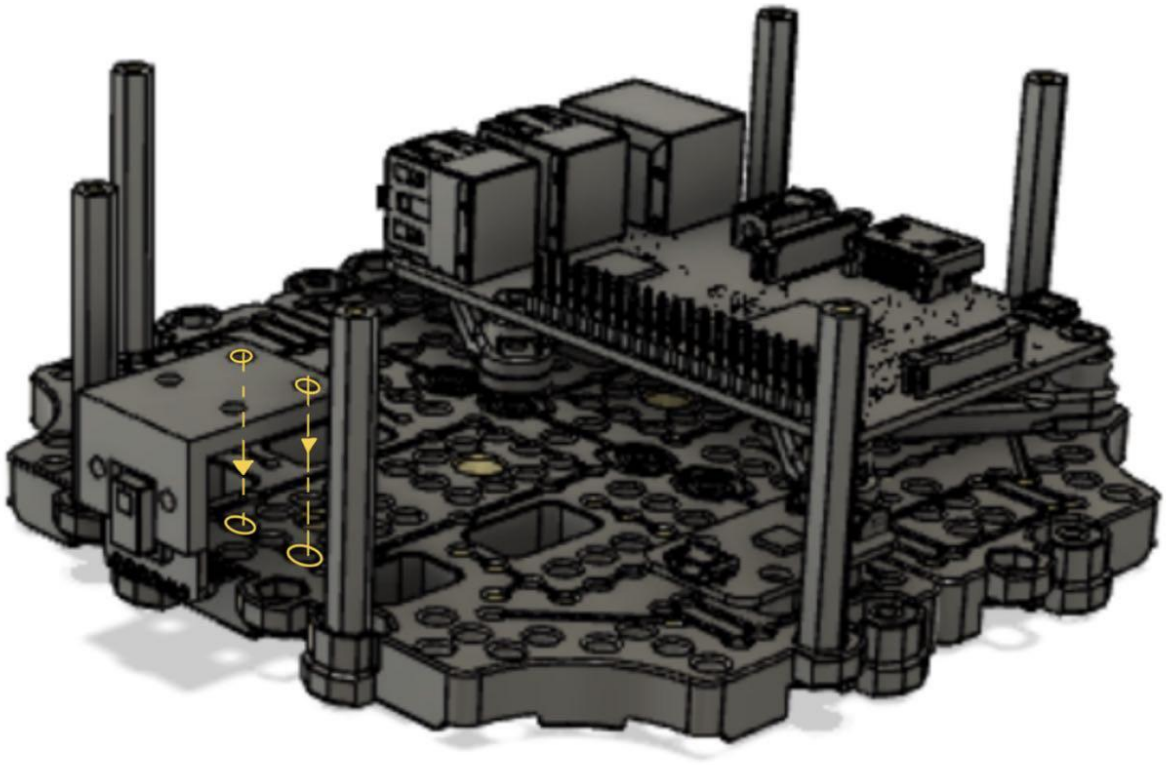


17. Mount Second layer
18. Open CR to second layer
19. Raspberry Pi to third layer

20. 2 sets of M2x5 screws and M2 nuts

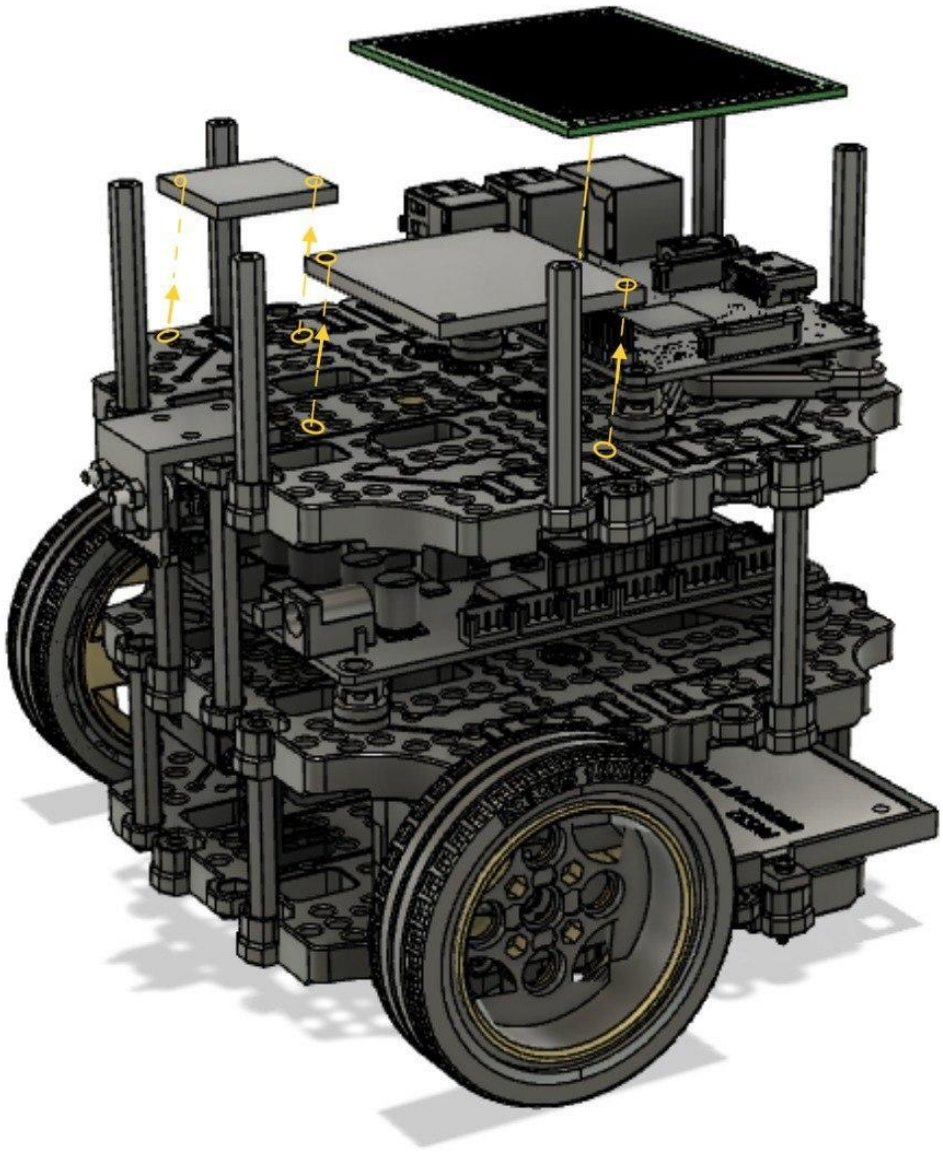


21. 2 sets of M3x15 screws and M3 nuts



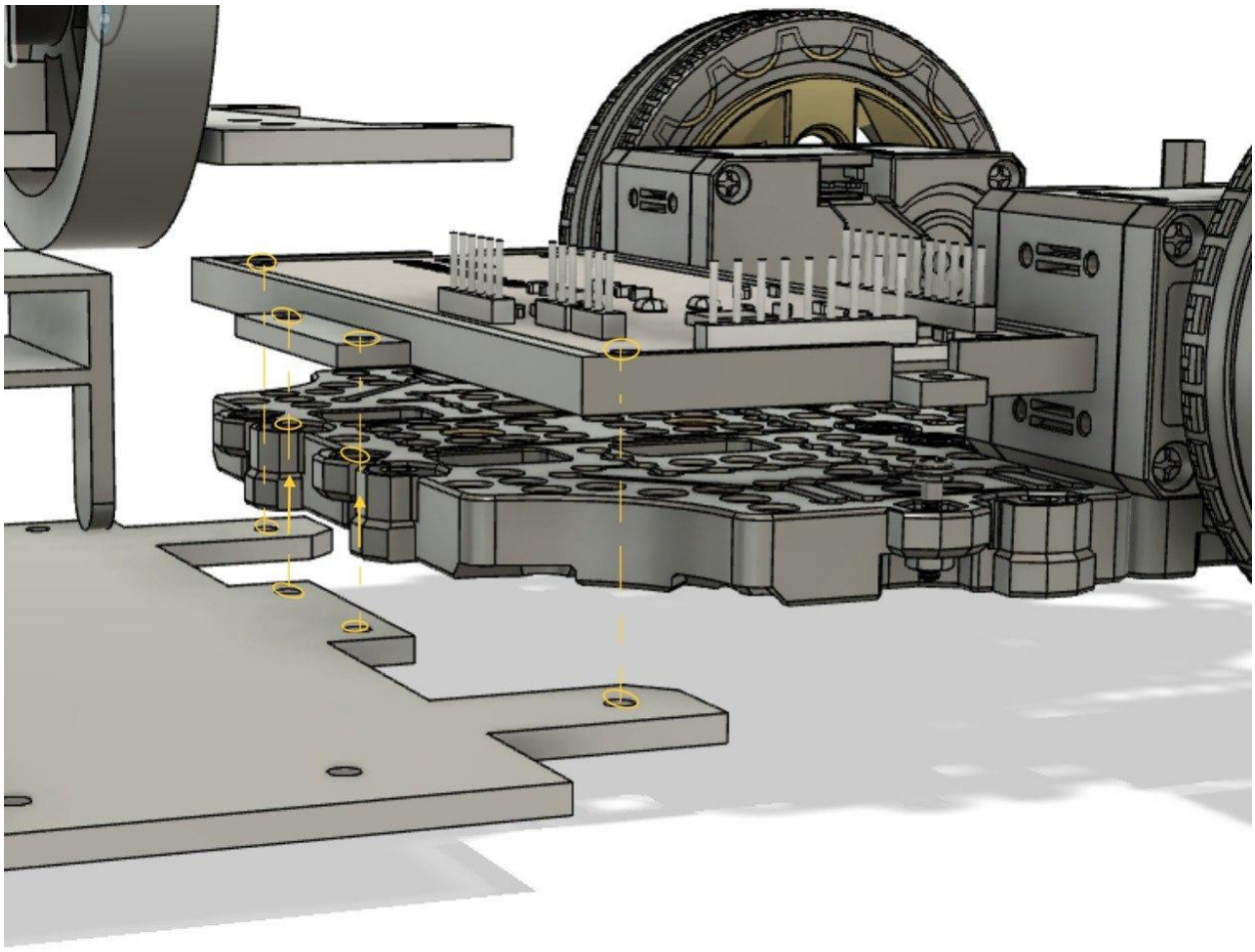
22. Third layer to turtlebot

23. 4 M2x10 to secure the drivers onto the second layer. Attach perfboard onto Raspberry Pi

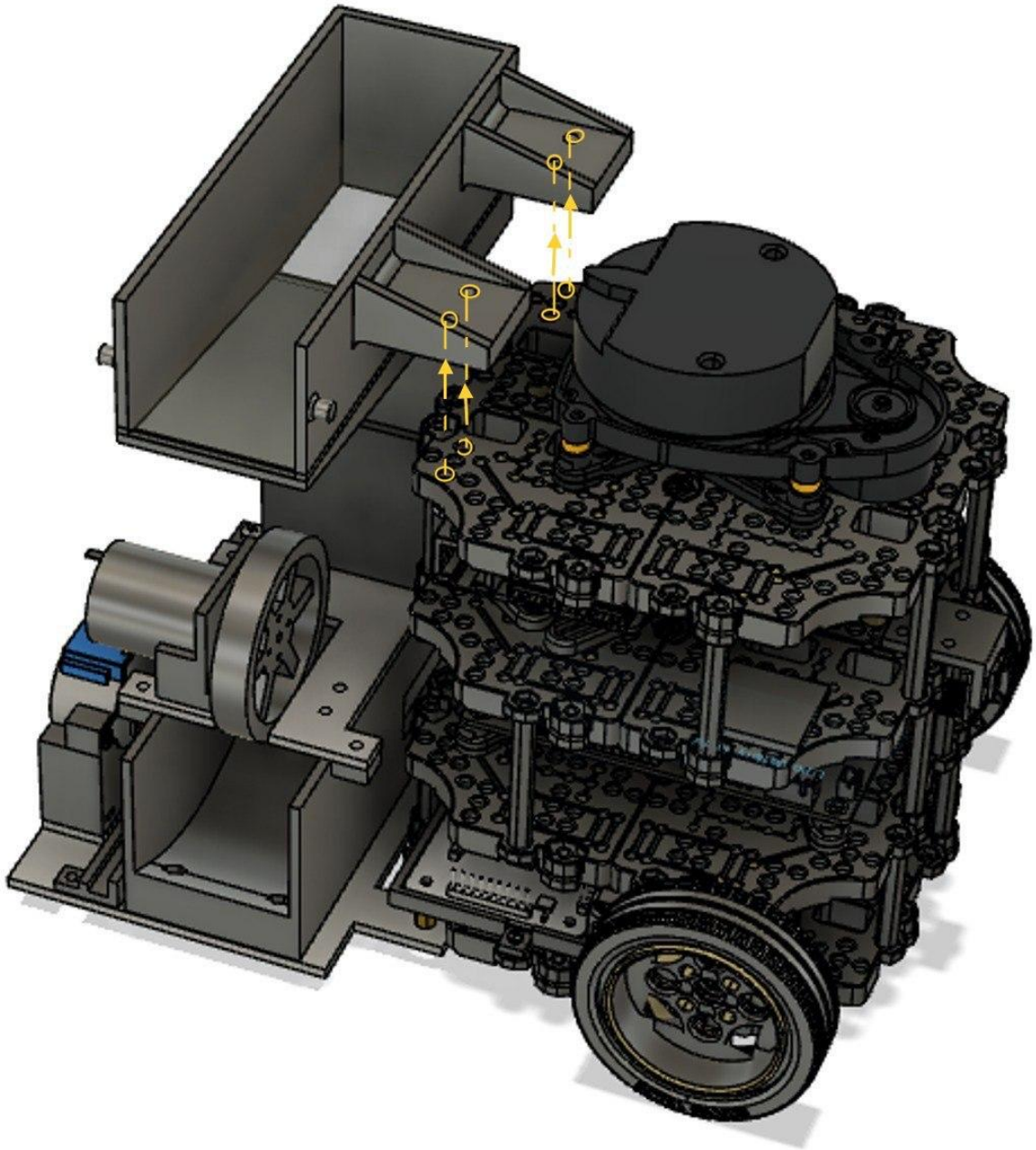


24. Mount fourth layer
25. Mount Lidar and Lidar controller to fourth layer

26. 2 M3x10 F to F Standoffs and 4 M3x10 screws for outer two holes, 2 sets of M3x30 and M3 nuts for inner two holes



27. 4 sets of M3x20 screws and M3 nuts



28. Superglue funnel bottom to funnel top
29. Slide battery into first layer