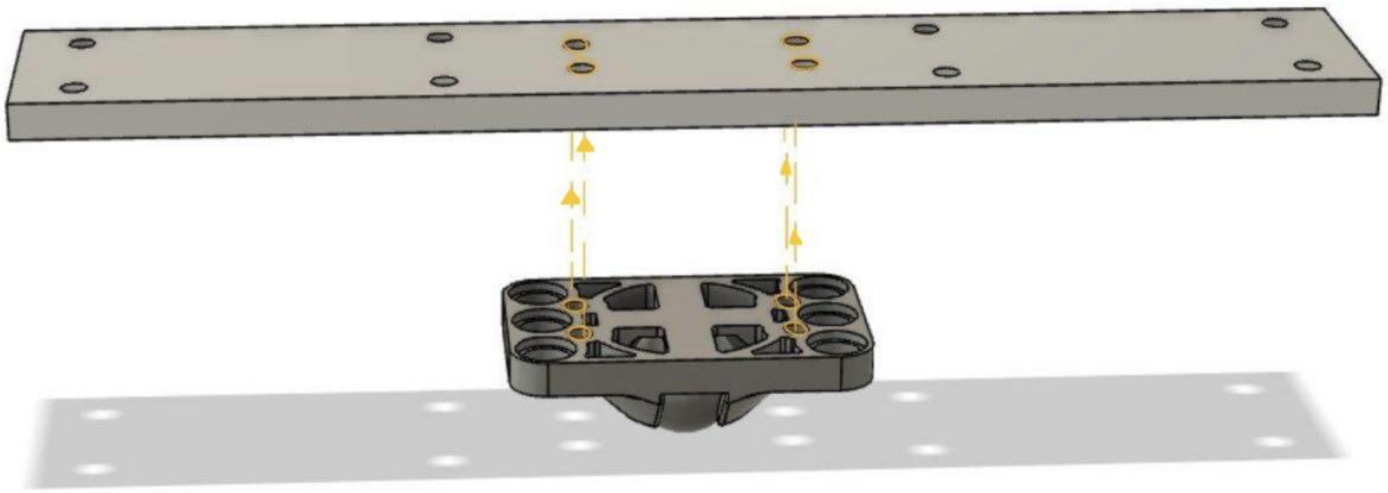
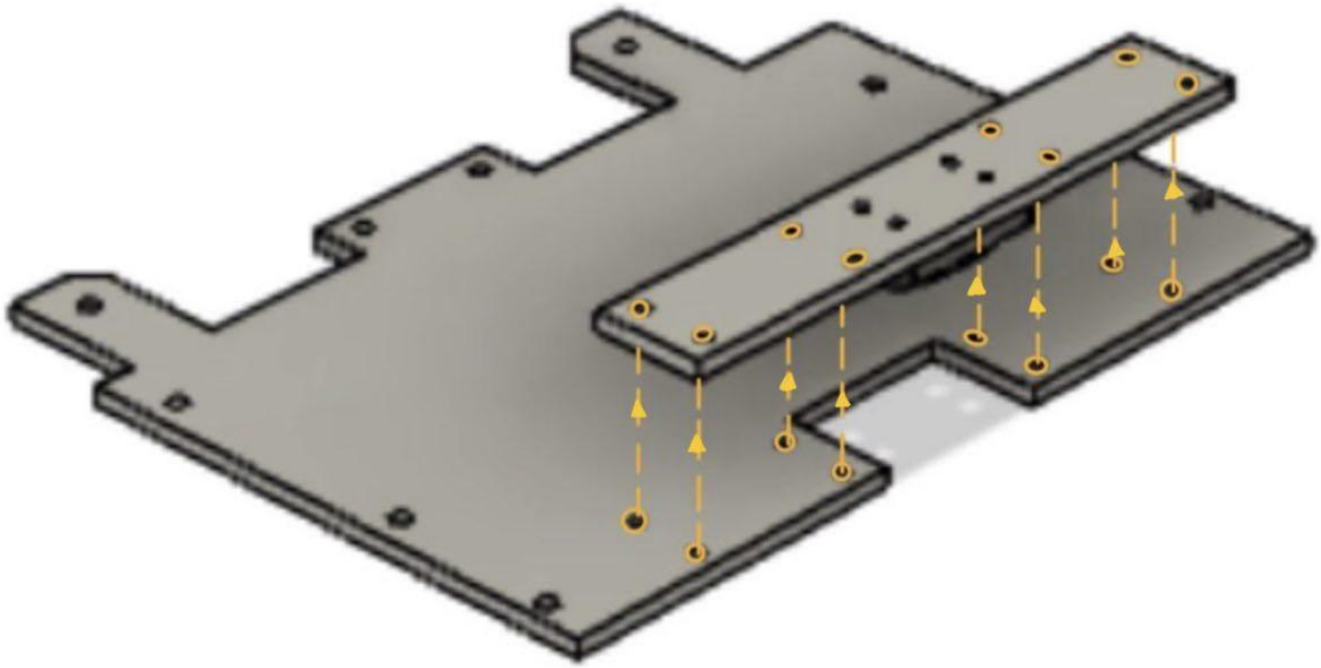
All screws used are Philips pan head screws
Screws are inserted in the direction of the arrow ▸ (i.e. from the flat base of the triangle to the tip)
Dotted line indicates that the centre of the circles are along the same line.

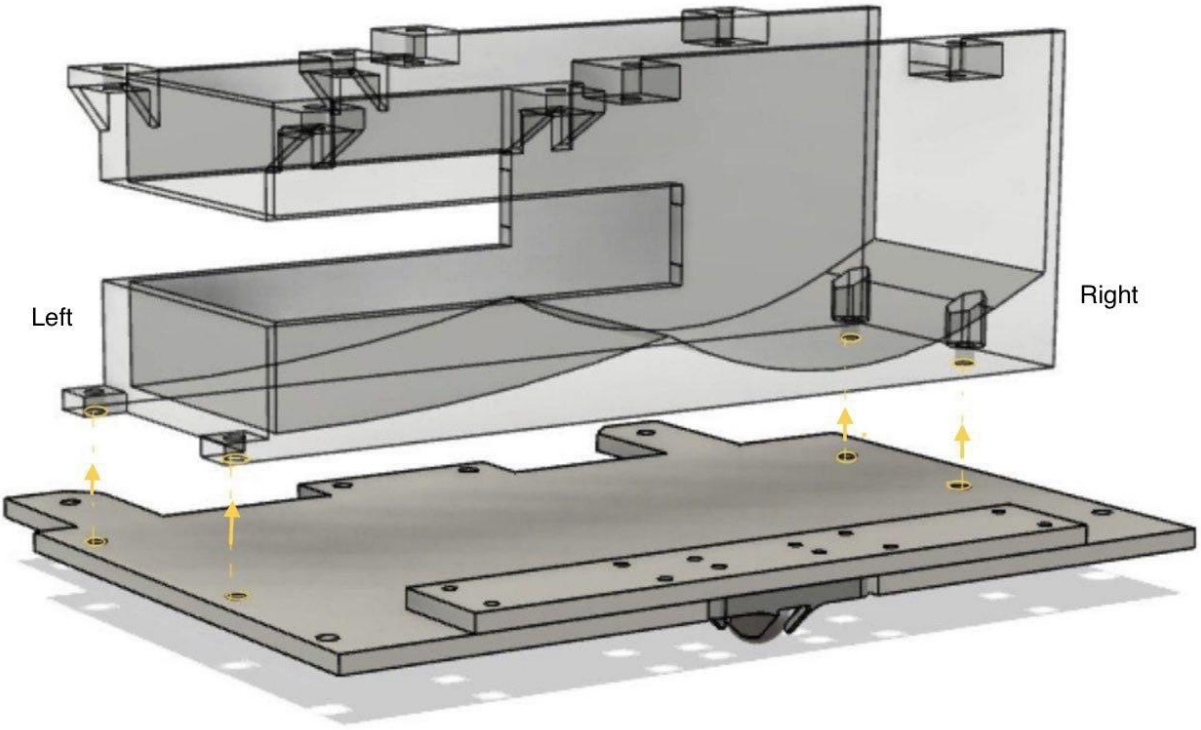
1. 4 sets of M2x10 screws, M2 washers and M2 nuts



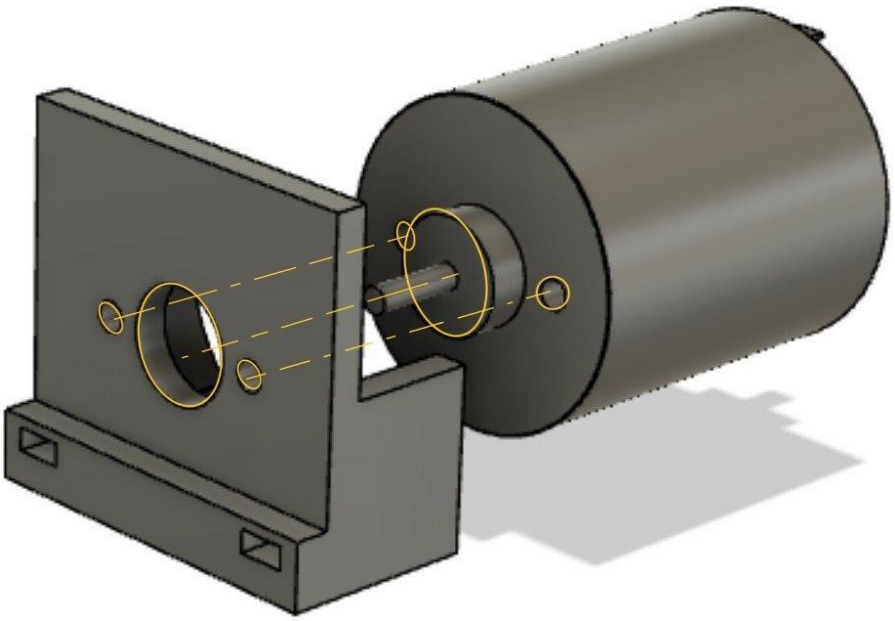
2. 8 sets of M2x10 screws, M2 washers and M2 nuts



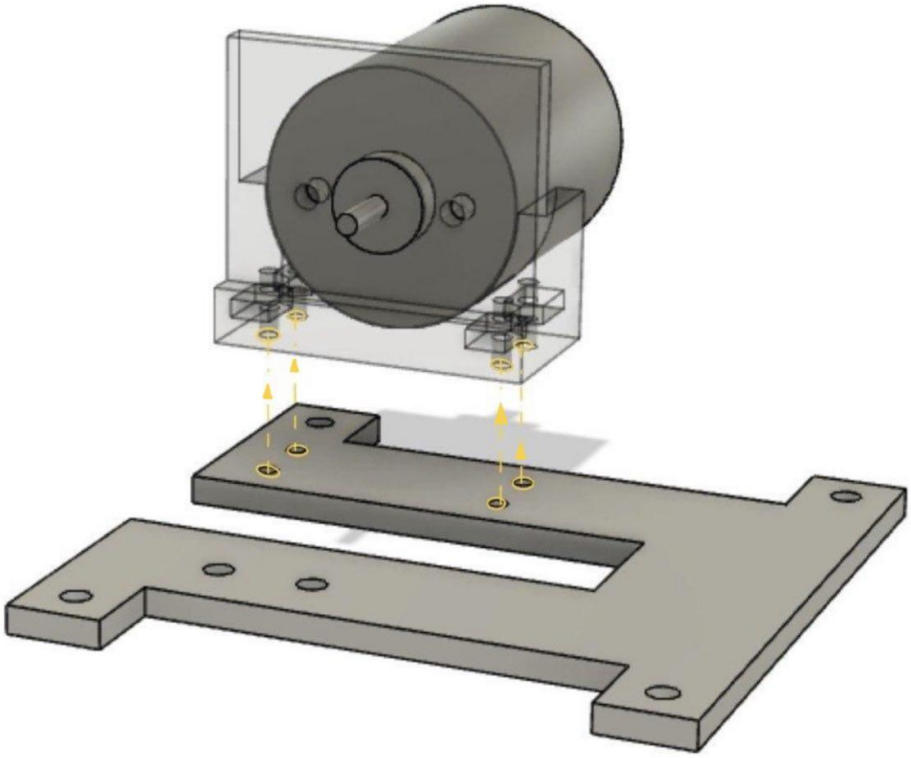
3. 2 sets of M2x15 screws and M2 nuts for left two holes and 2 sets of M3x15 screws and M3 nuts for right two holes



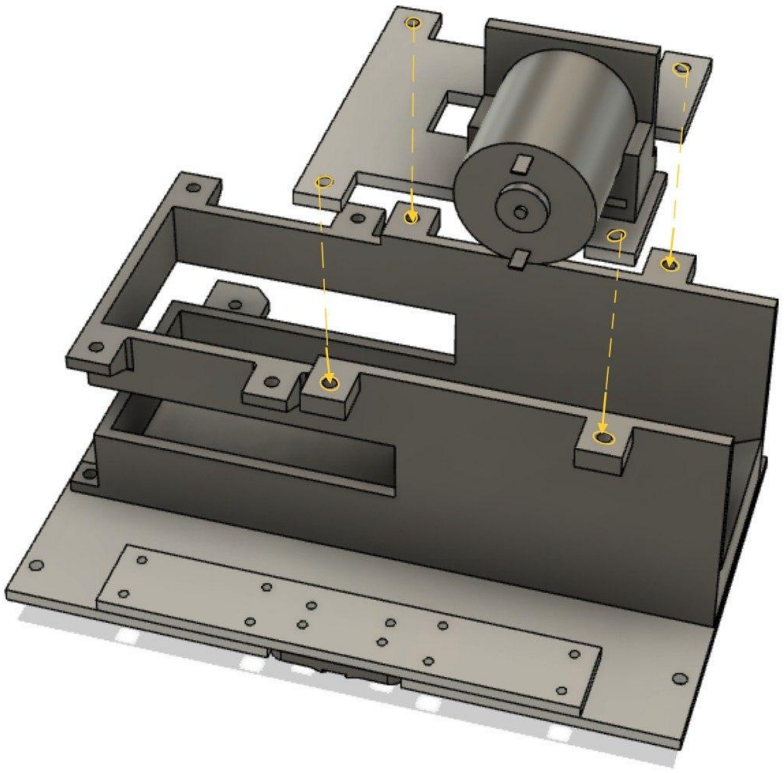
4. 2 M3x10 screws



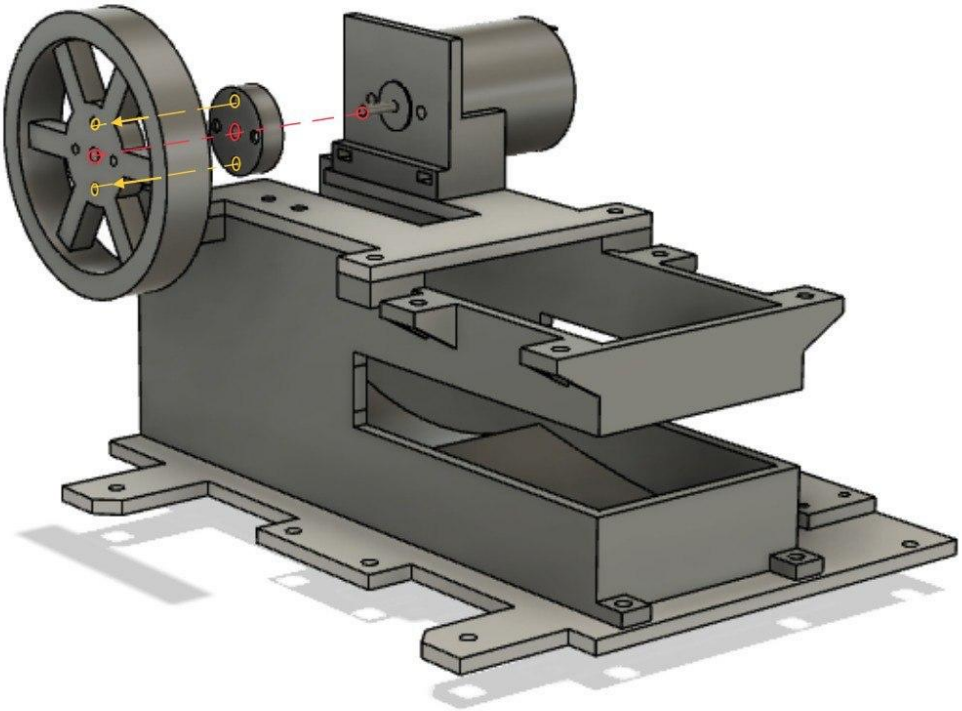
5. 4 sets of M3x15 screws and M3 nuts



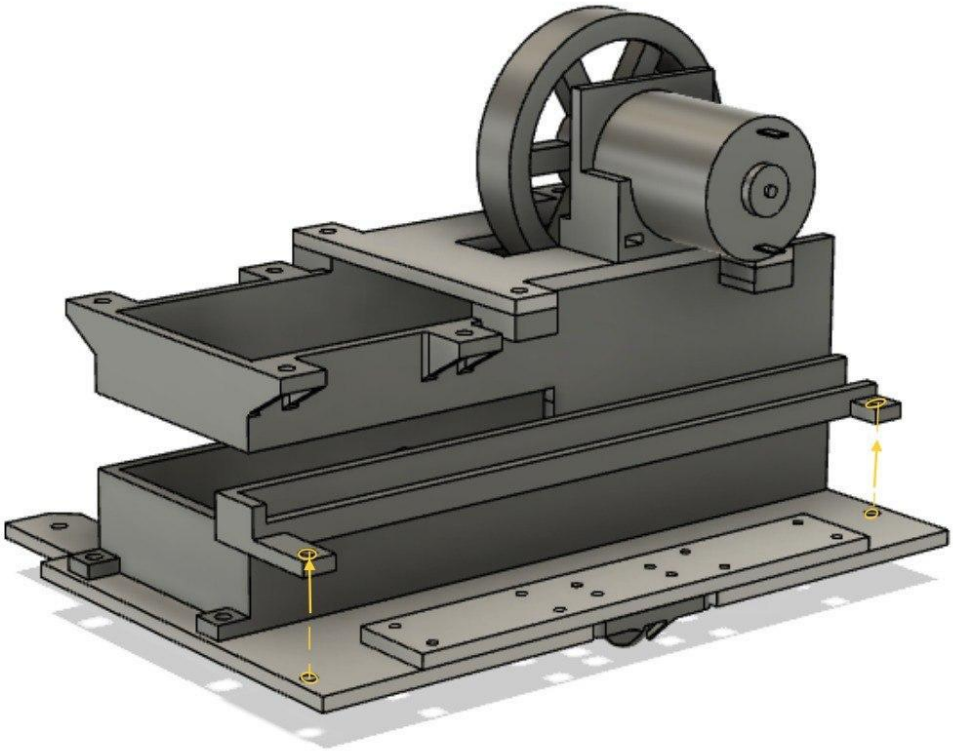
6. 4 sets of M3x15 screws, M3 washers and M3 nuts



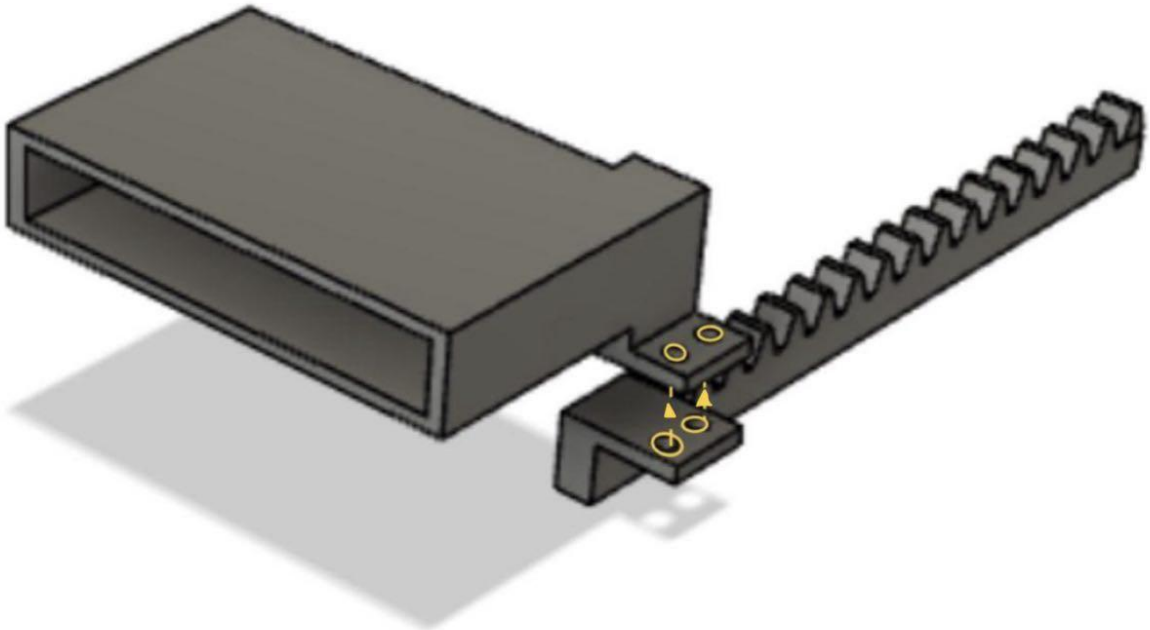
7. 2 sets of M3x15 screws and M3 nuts



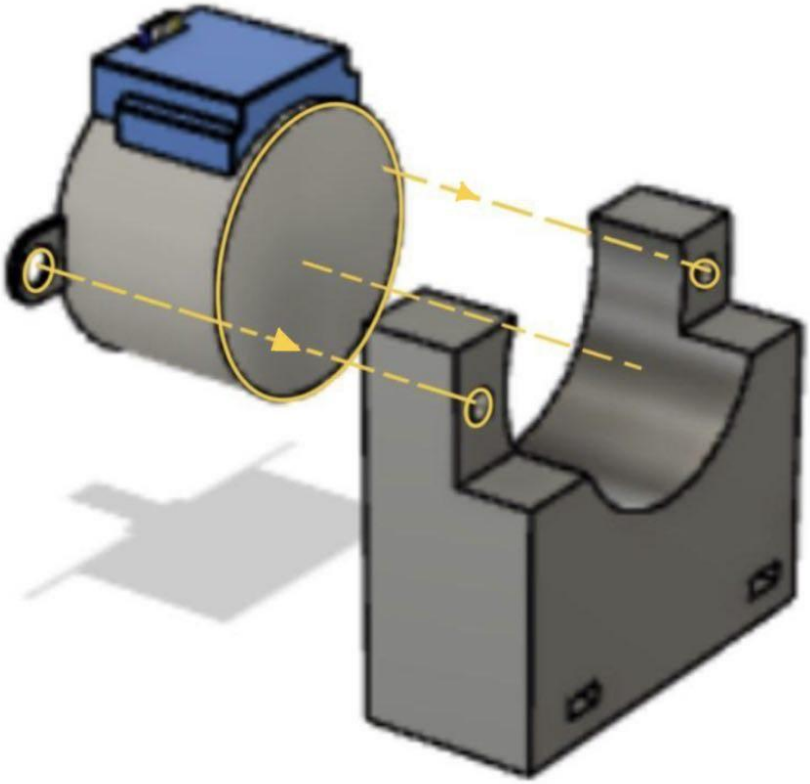
8. 2 sets of M3x15 screws and M3 nuts



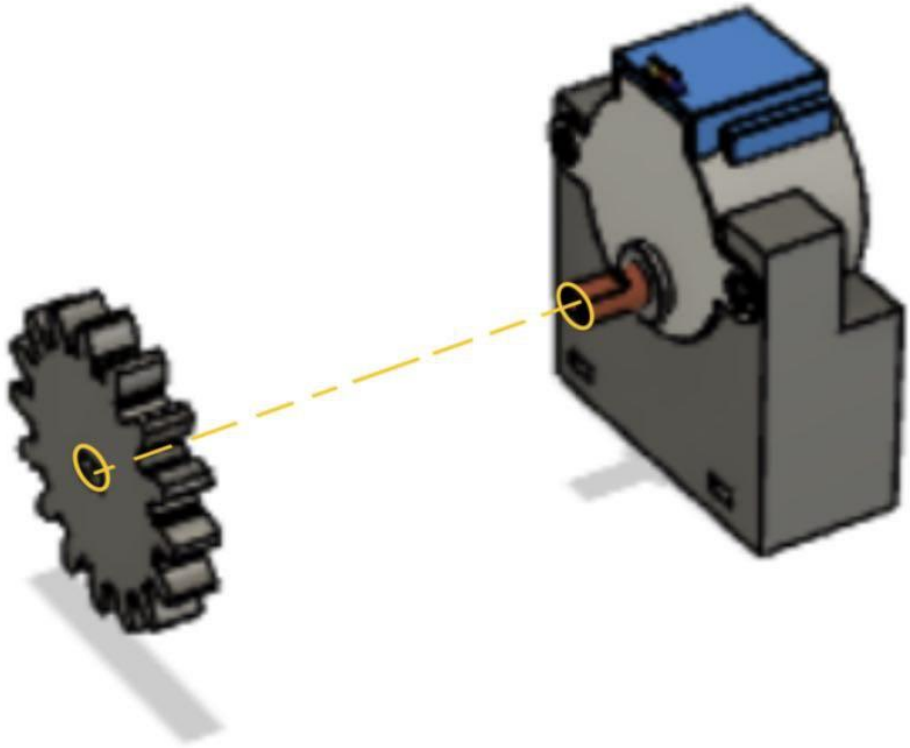
9. 2 sets of M3x15 screws and M3 nuts



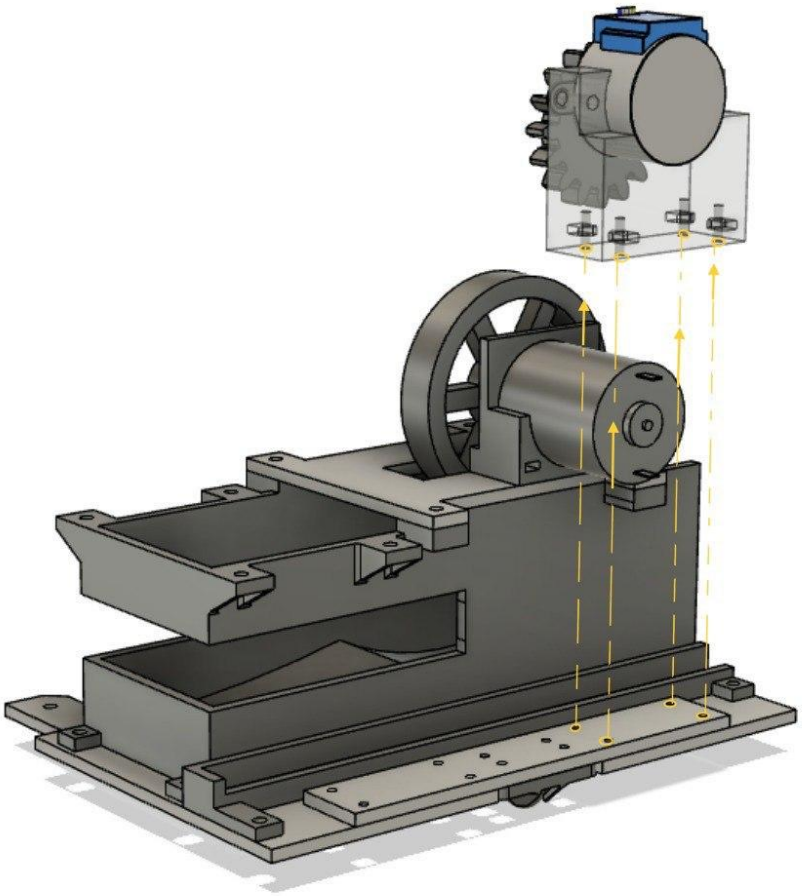
10. 2 sets of M3x15 screws and M3 nuts



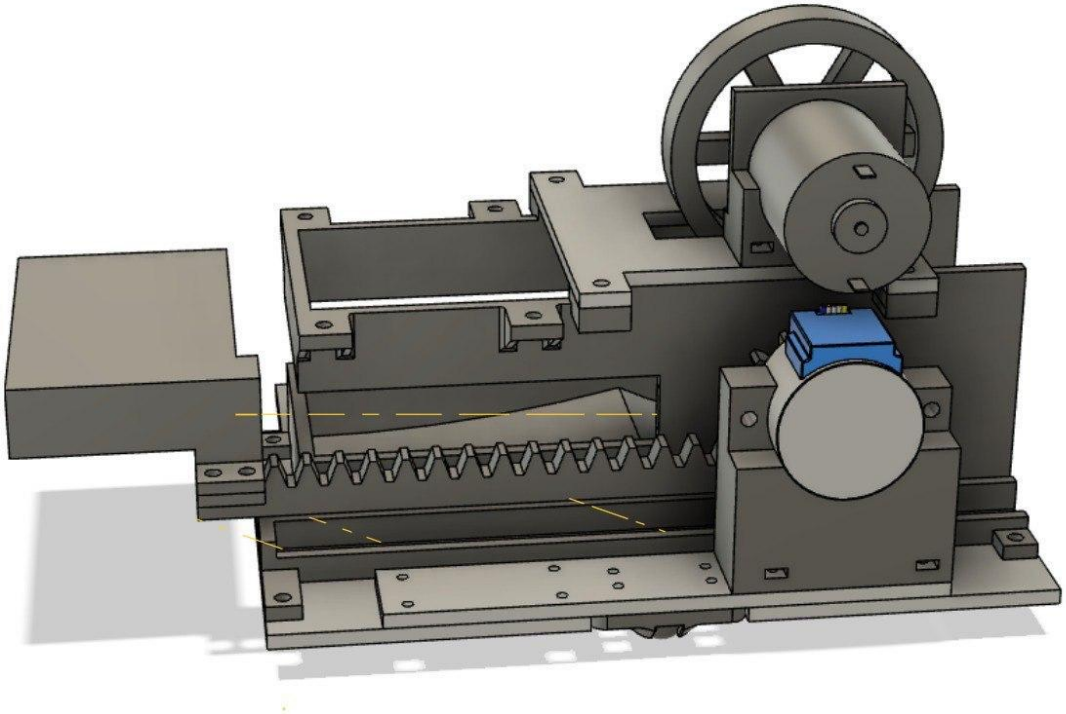
11. Attach pinion onto stepper motor



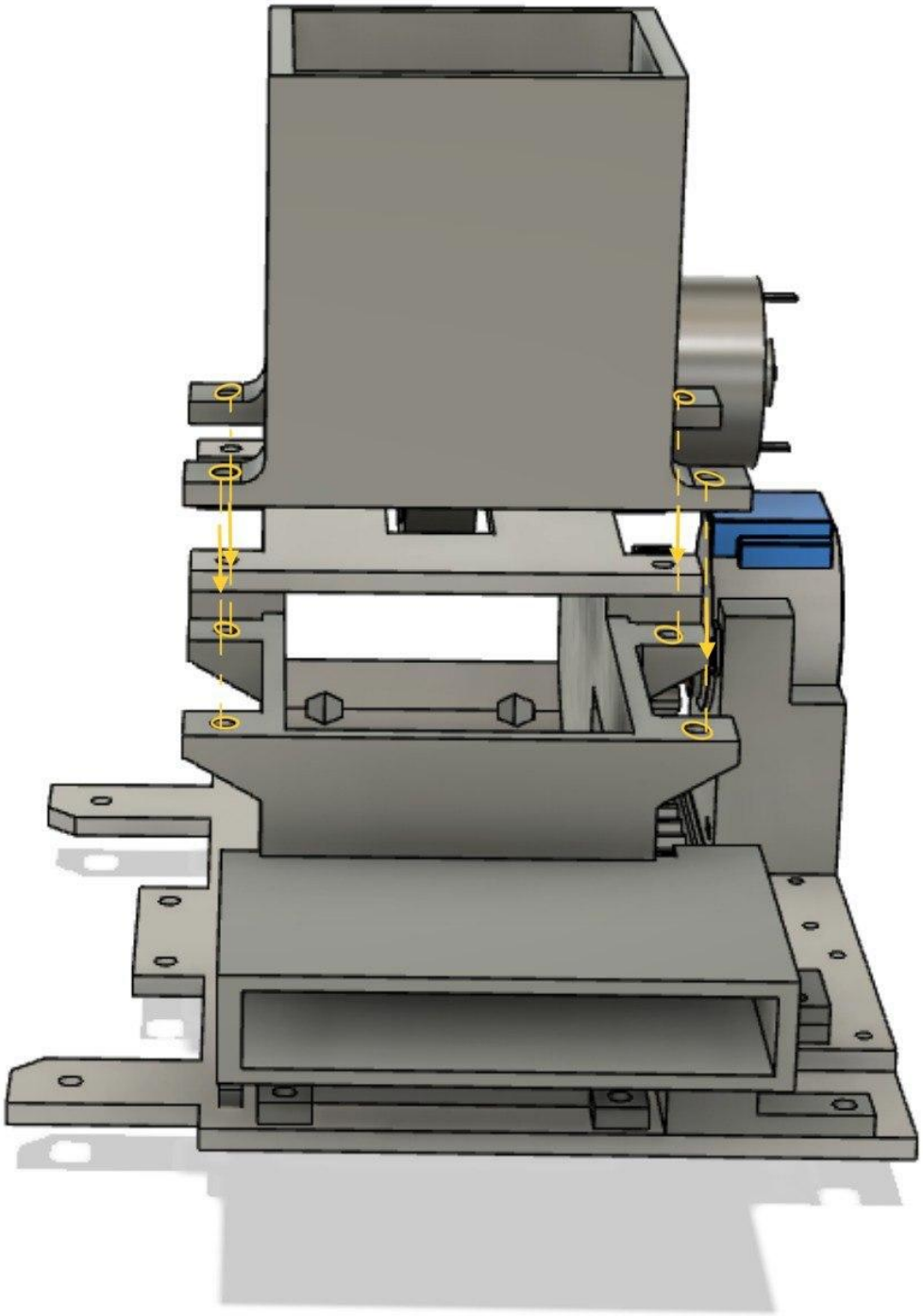
12. 4 sets of M2x15 screws and M2 nuts



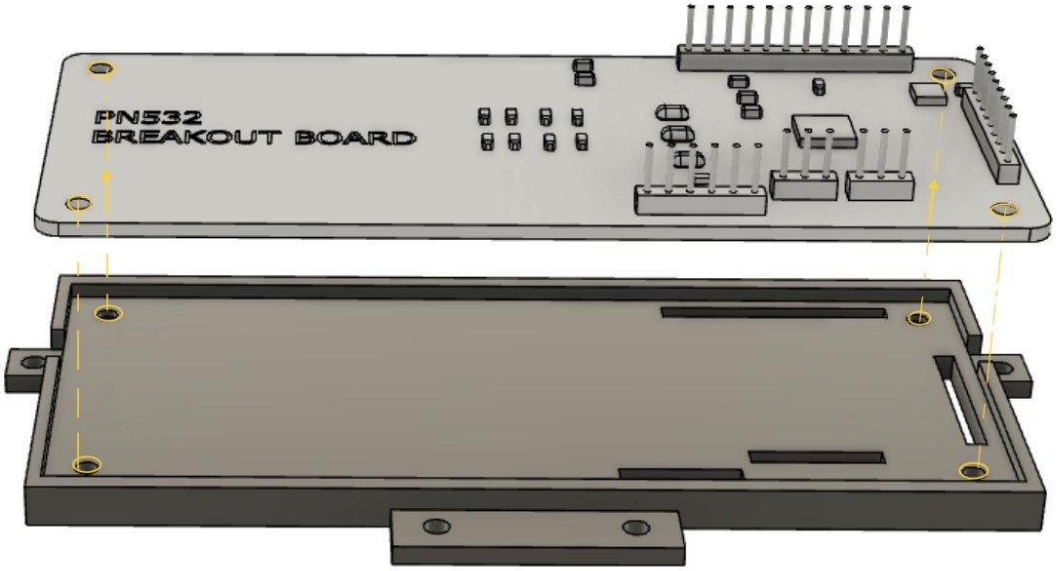
13. Rack to pinion



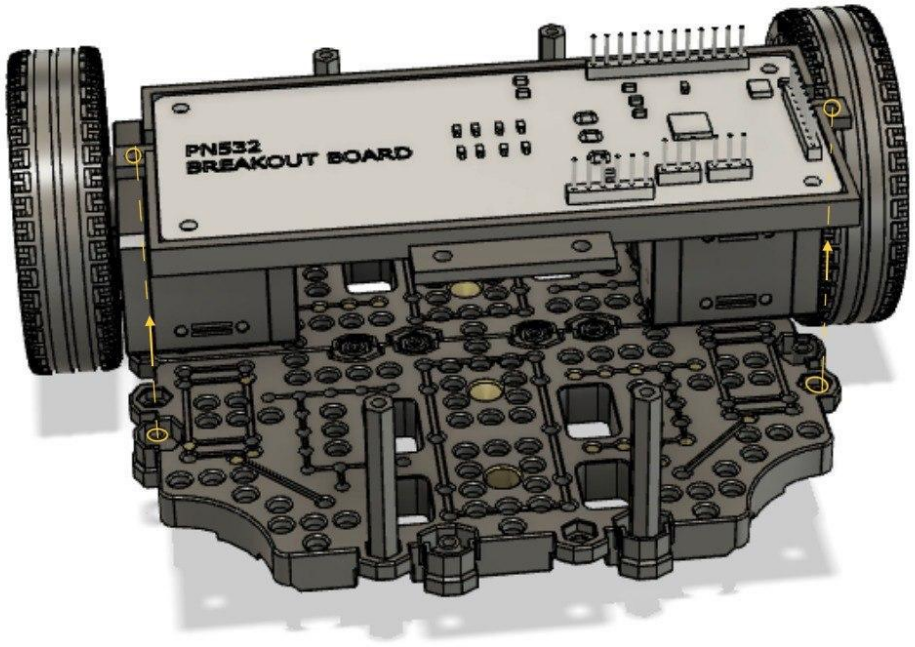
14. 4 sets of M3x15 screws and M3 nuts



15. 2 sets of M2x10 screws and M2 nuts

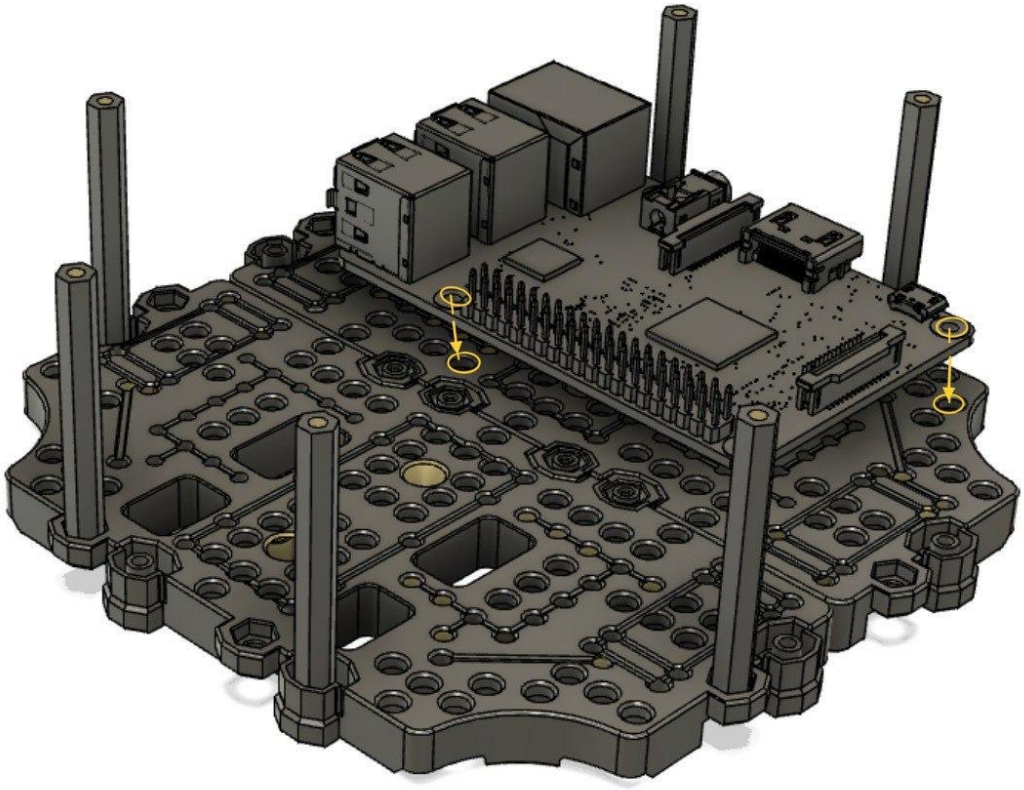


16. 2 sets of M2x15 screws and M2 nuts

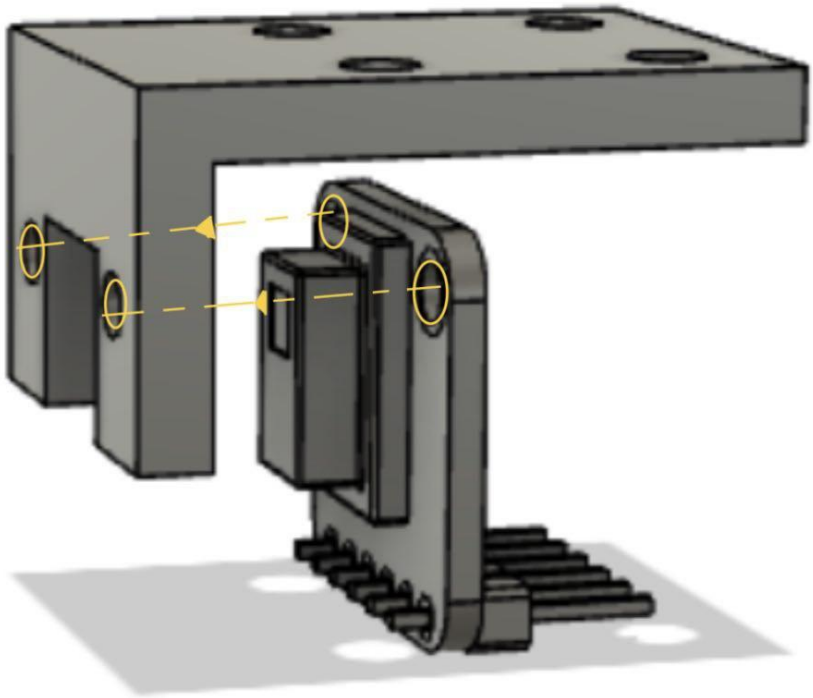


17. Mount Second layer
18. Open CR to second layer

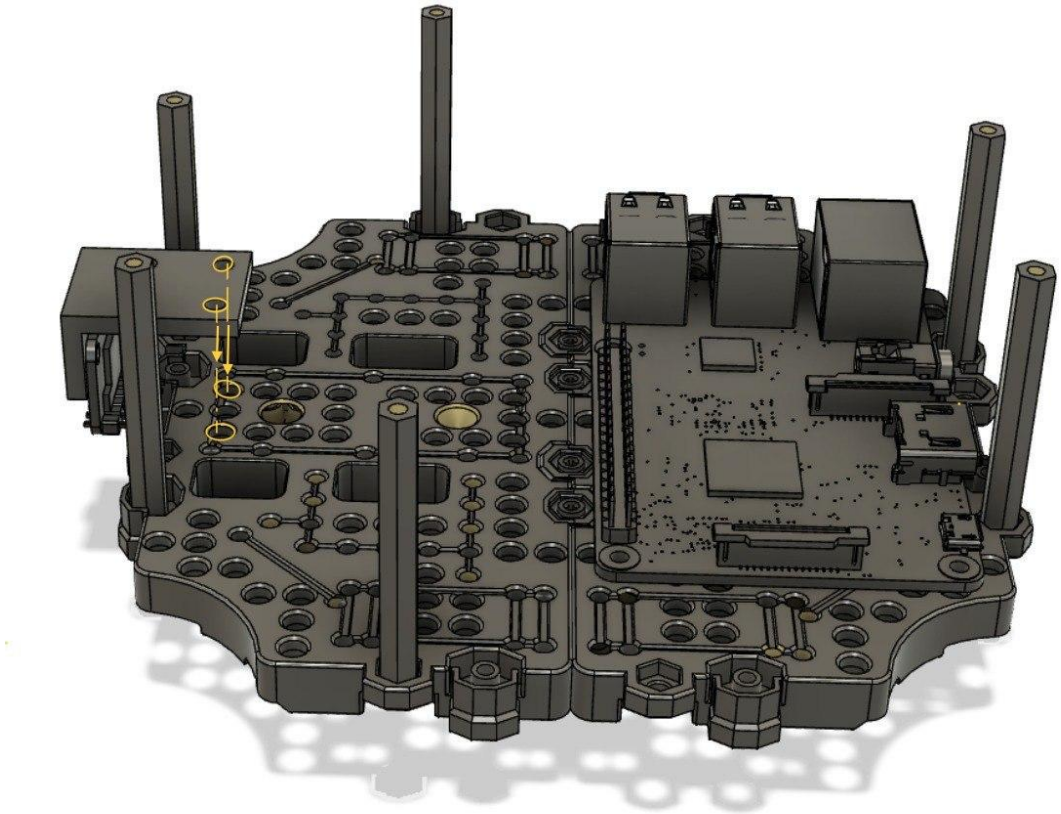
19. Raspberry Pi to third layer



20. 2 sets of M2x5 screws and M2 nuts

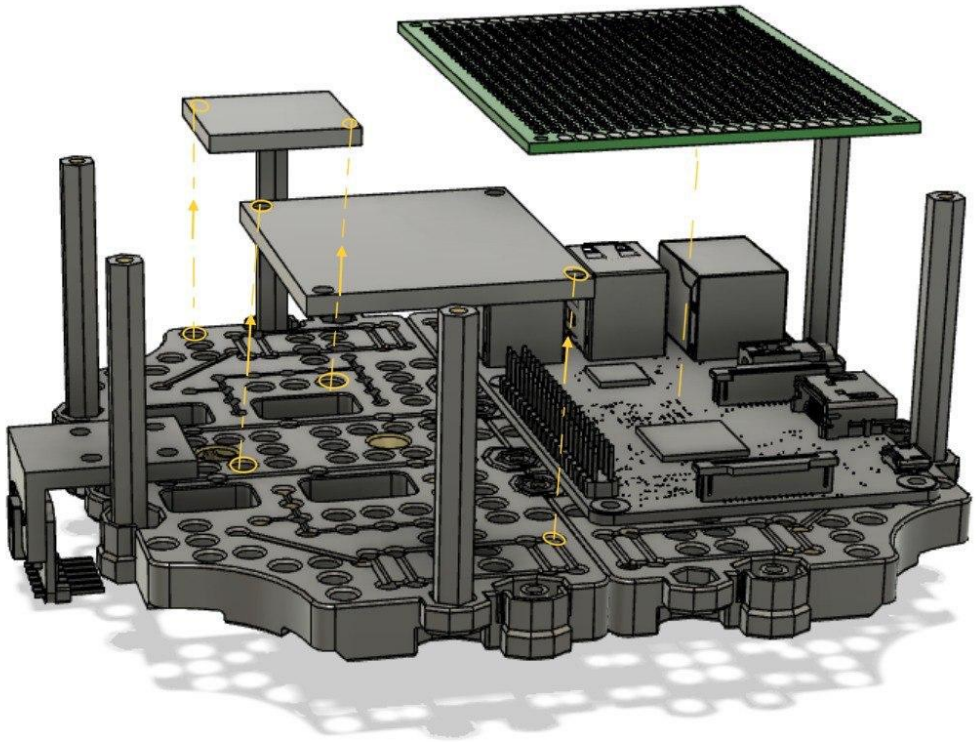


21. 2 sets of M3x15 screws and M3 nuts



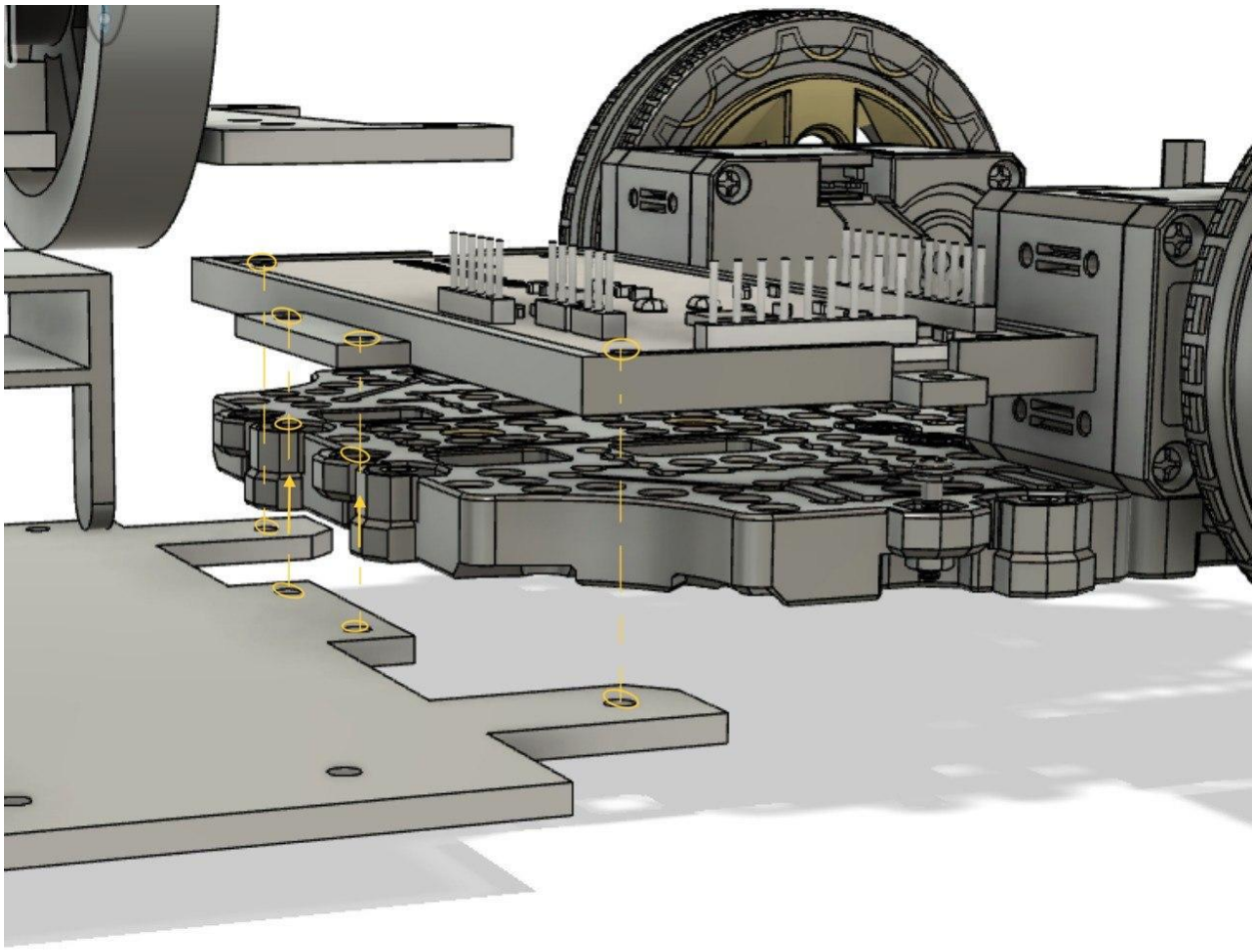
22. Third layer to turtlebot

23. 4 sets of M2x10 screws and M2 nuts to secure the drivers onto the second layer. Attach perfboard onto Raspberry Pi

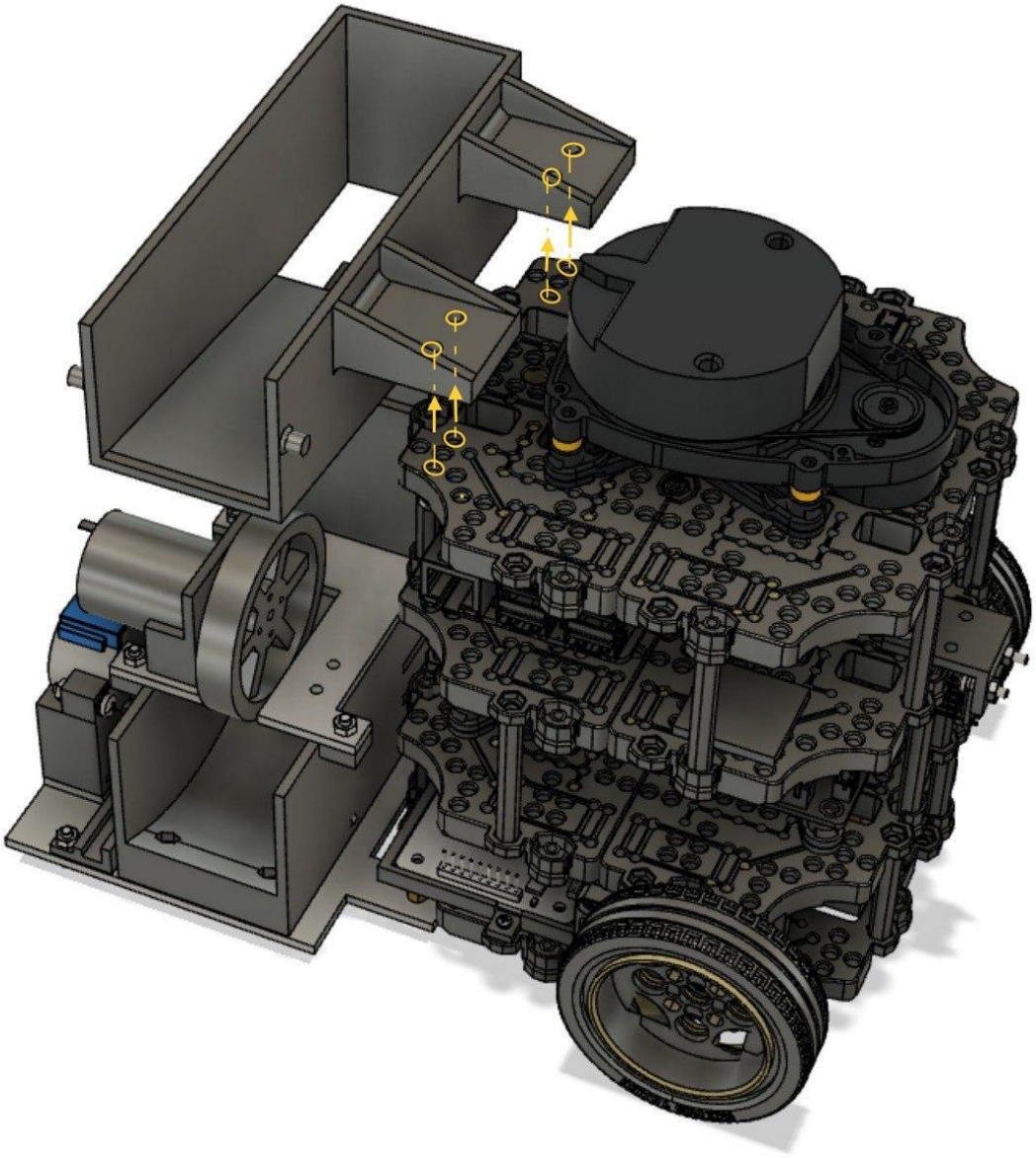


24. Mount fourth layer
25. Mount Lidar and Lidar controller to fourth layer

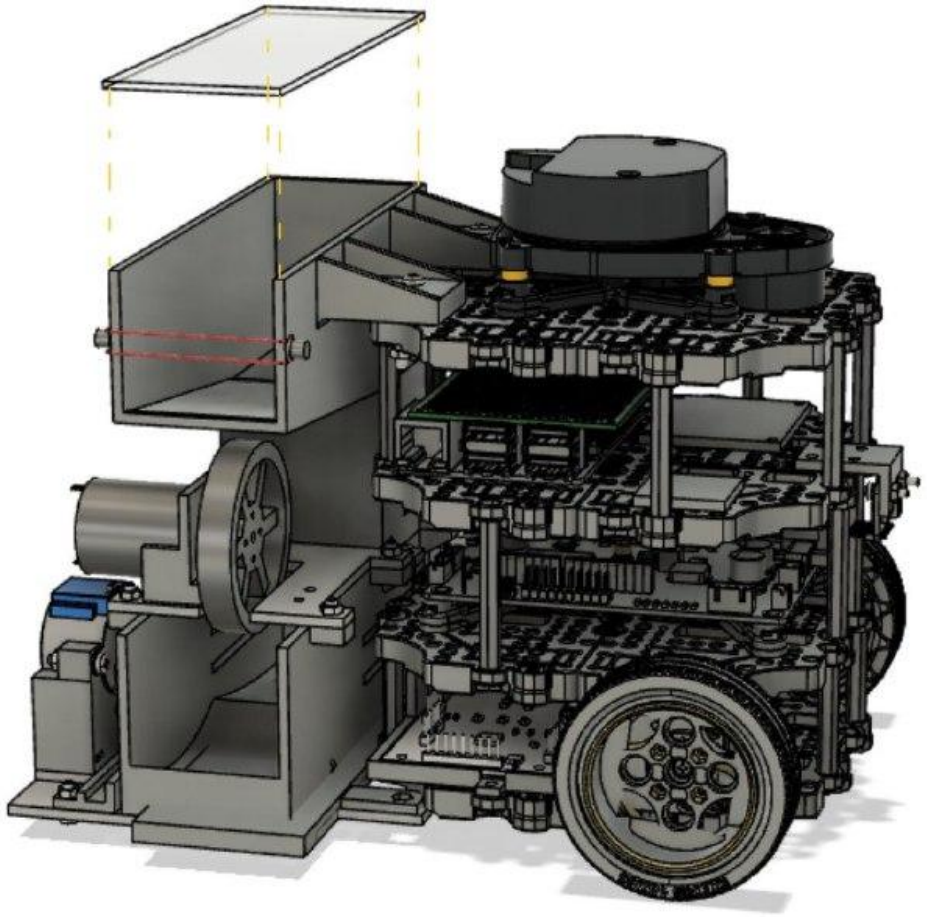
26. 2 M3x10 F to F Standoffs, 4 M3x10 screws and 2 M3 washers for the outer two holes, 2 sets of M3x30 and M3 nuts for the inner two holes



27. 4 sets of M3x20 screws and M3 nuts



28. Superglue funnel bottom to funnel top
29. Superglue lid to funnel top



30. Slide battery into first layer

Here’s the completed McTruck: