

Assembly Instructions for Forklift Device

1 Introduction

These instructions will guide you through the steps needed to assemble a forklift device from the provided components.

2 Tools Required

- Small Phillips screwdriver
- Soldering station

3 Parts Required

- fork * 1
- gear box * 2
- rack * 2
- gear * 2
- motor * 2



Figure 1

4 Assembly Steps

Follow these steps to assemble your forklift device:

Step 1: **Prepare the Case:** Weld two 2.8mm screw nuts onto each gear box and two 2.5mm screw nuts onto each side of fork.



Figure 2

Step 2: **Link fork:** Link each side of fork with rack by two 2.8mm screws.



Figure 3

Step 3: **Link gear:** Link each motor output shaft with gear by two 2.5mm pins.



Figure 4



Figure 5

Step 4: **Link gear and rack:** Set up the each motor into the gear box and link each gear with rack.

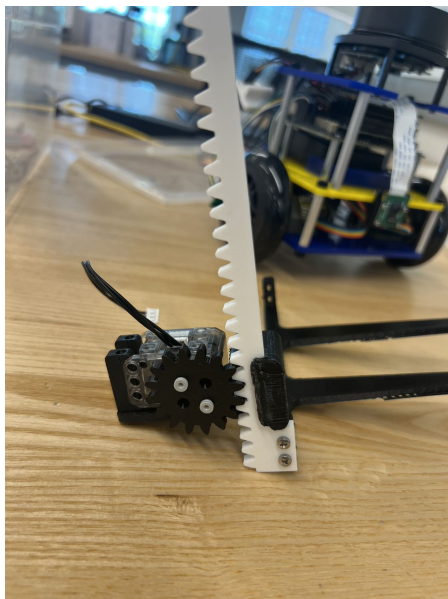


Figure 6



Figure 7

Step 5: **Link the forklift with the robot:** Link each gear box with robot by two 2.5mm screws.

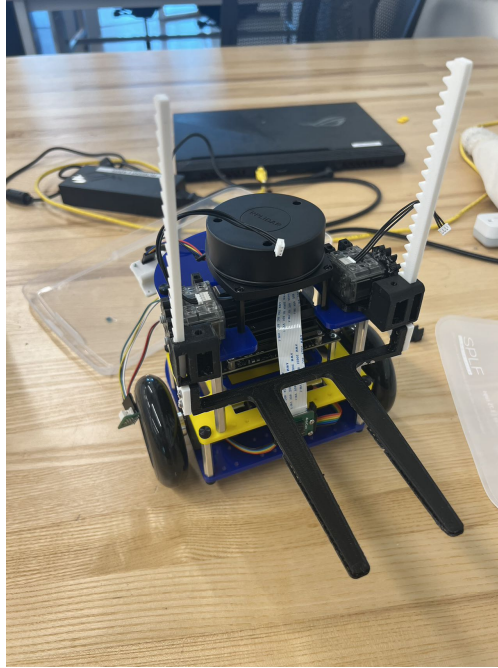


Figure 8

Step 6: **Link signal cable with chip:** Link each signal cable with chip by two pins.

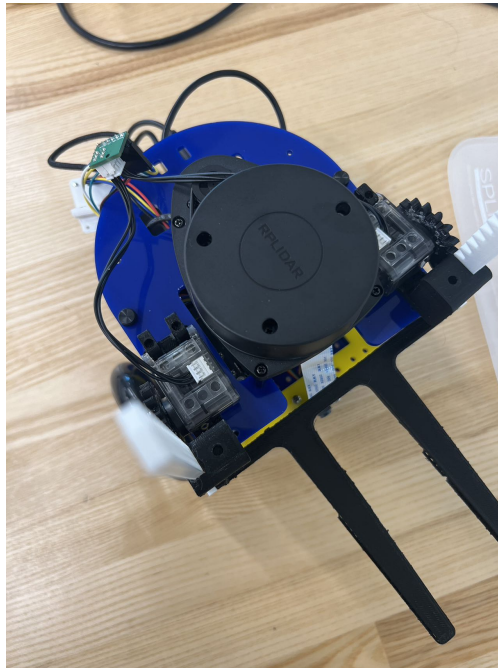


Figure 9

5 Testing

After assembly, test the forklift in various lifting conditions to ensure it operates correctly.