PRESENTED BY :
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OPENFISH MECHANISM ASSEMBLING

RECOPROCAL TOUCH EXPERIMENT
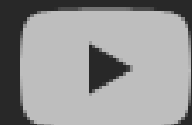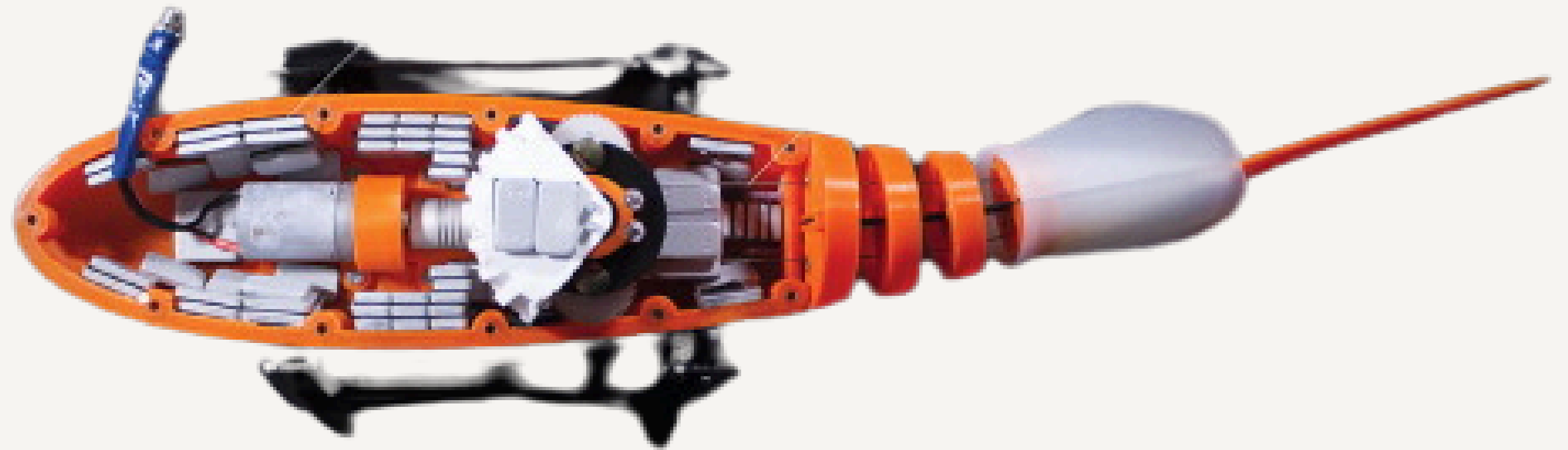
LAB
OBJECTIVE

OBJECTIVE

In this lab, you will learn about the mechanisms within OpenFish and how to install them. This lab will primarily involve hands-on activities.
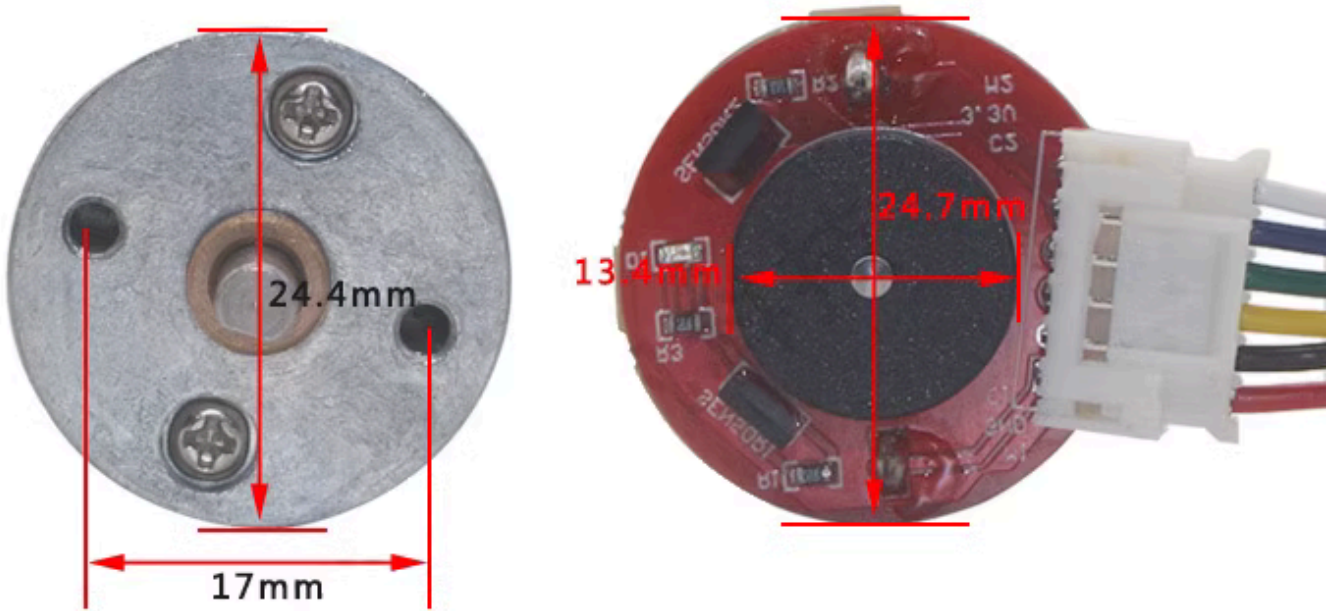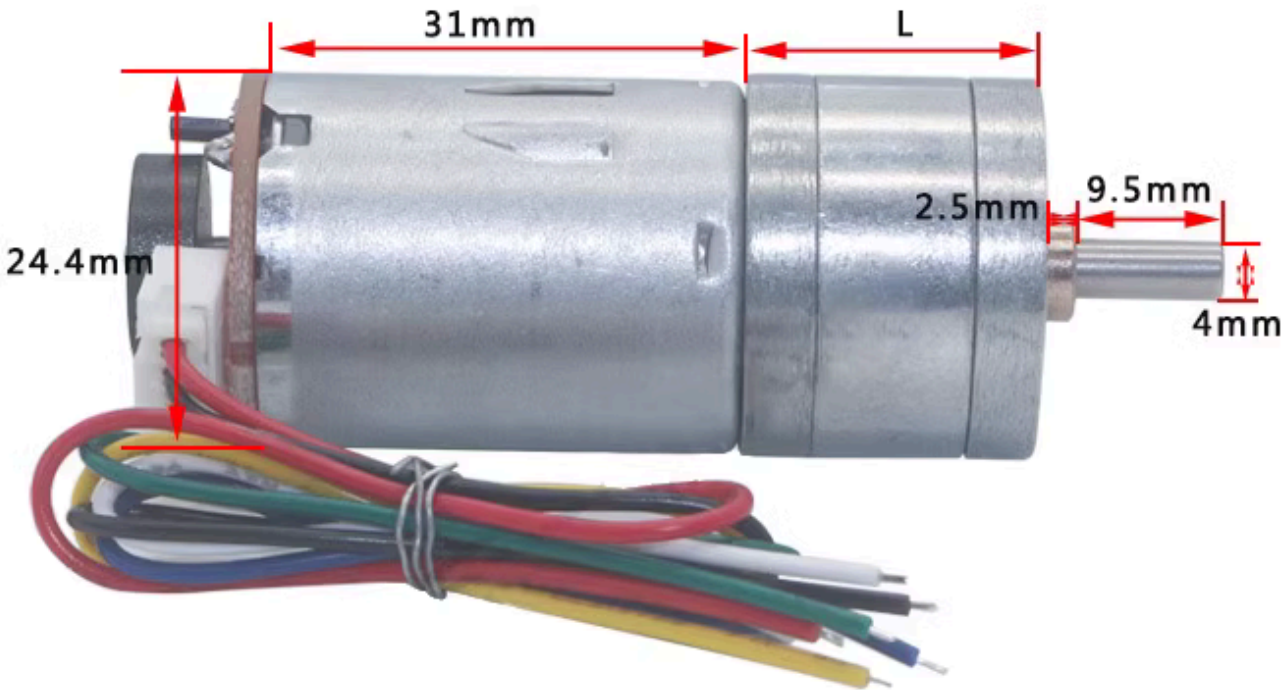
JGA25-370 Geared Motor
DC12V 620RPM

GET YOUR
MOTOR

Parameter	Specification
Motor Model	JGA25-370-9.6K
Rated Voltage	6 V ±10%
No-load Speed	620 RPM
No-load Current	0.1 A
Rated Speed	477 RPM
Rated Current	0.5 A
Locked-rotor Torque	0.16 KG.CM
Rated Torque	0.9 KG.CM
Locked-rotor Current	2.6 A
Weight	83 g
L Dimension	17.5 MM
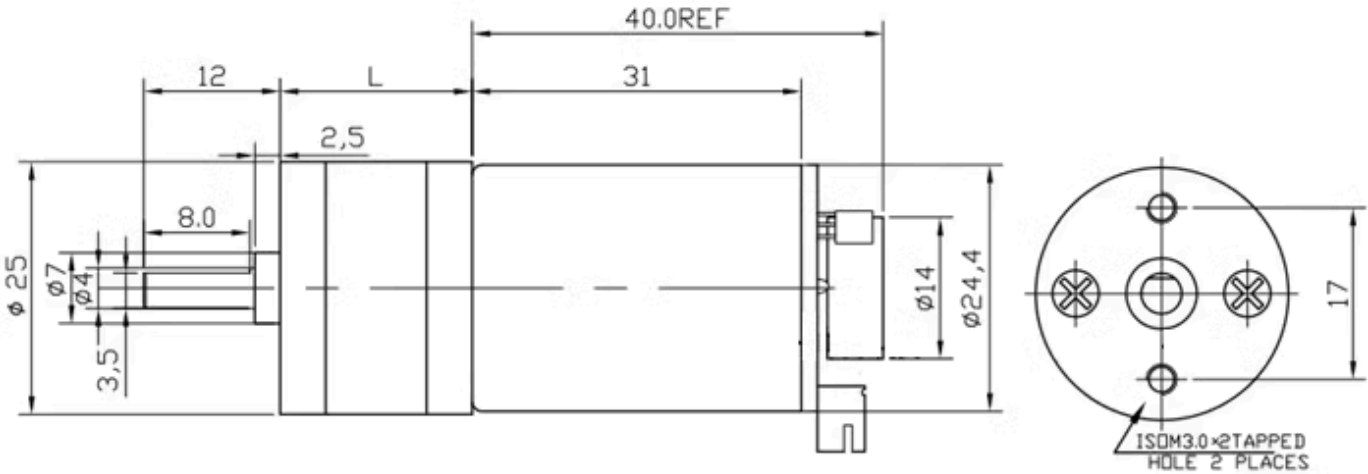
- You must return this toolbox after every lab or class.
- Please ensure it is returned in the same condition as when you borrowed it.
- You're welcome to use your own tools if you prefer.
- If you are enrolled in the ISD Year Long Project course, you can borrow a toolbox from Terrence for the duration of the year.

GET YOUR
TOOLBOX

PURCHASE COMPONENTS AND REIMBURSEMENTS

- Determine which components you need to purchase and specify the specifications for each component.
- Contact the Teaching Assistant (TA) by email or in the WhatsApp group to check if we have the required items or similar ones available in the lab.
- If the items are not available, proceed to purchase them on your own. Make sure to request a receipt and keep it for your records (refer to the detailed guidelines on the webpage).
- Follow the reimbursement procedures outlined in the reimbursement guide on the website.
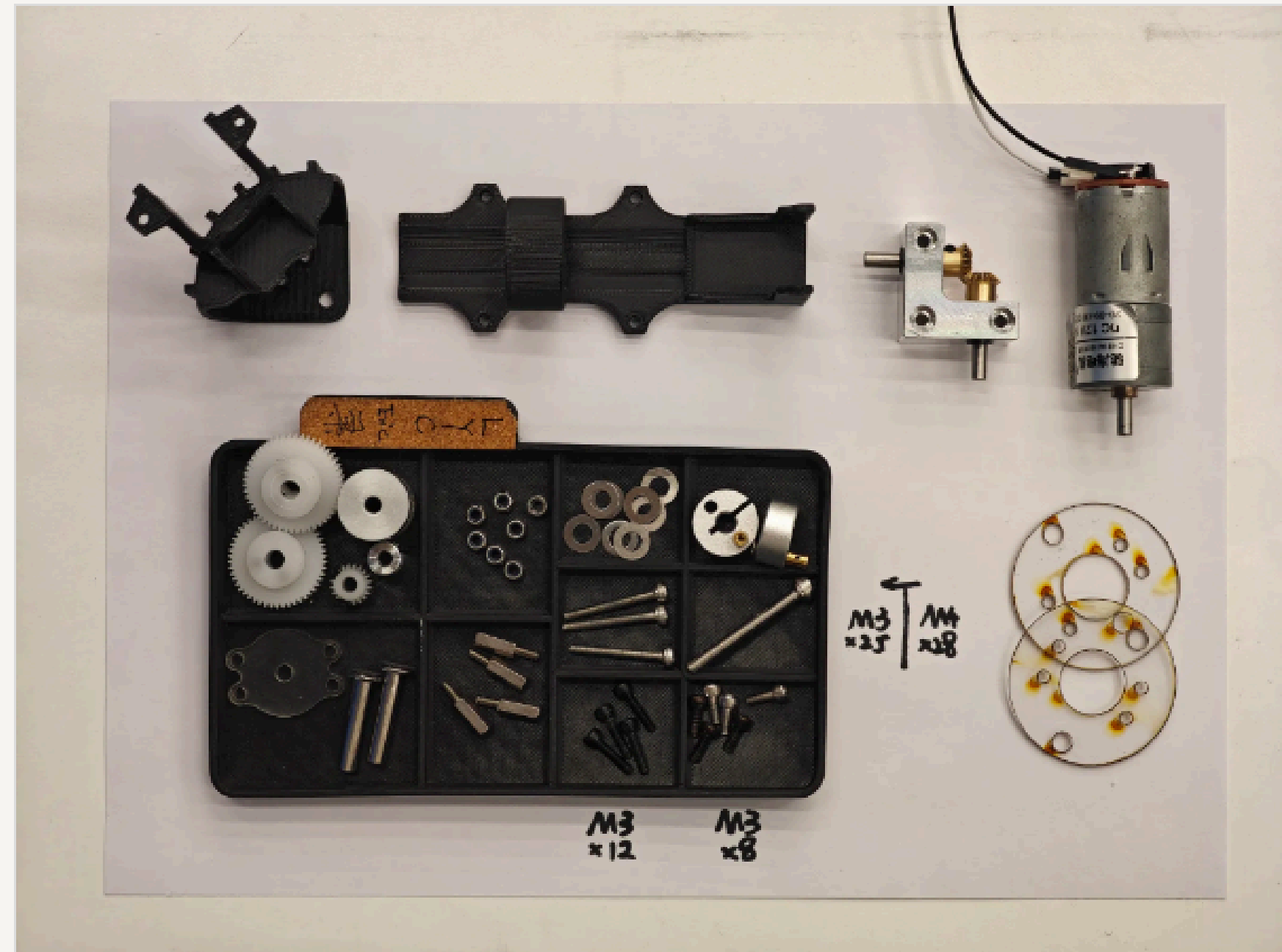
Reimbursement Guide UG

Made with Notion

Reimbursement Guide UG | Notion

Original Guide Doc

hkust-sr on Notion /
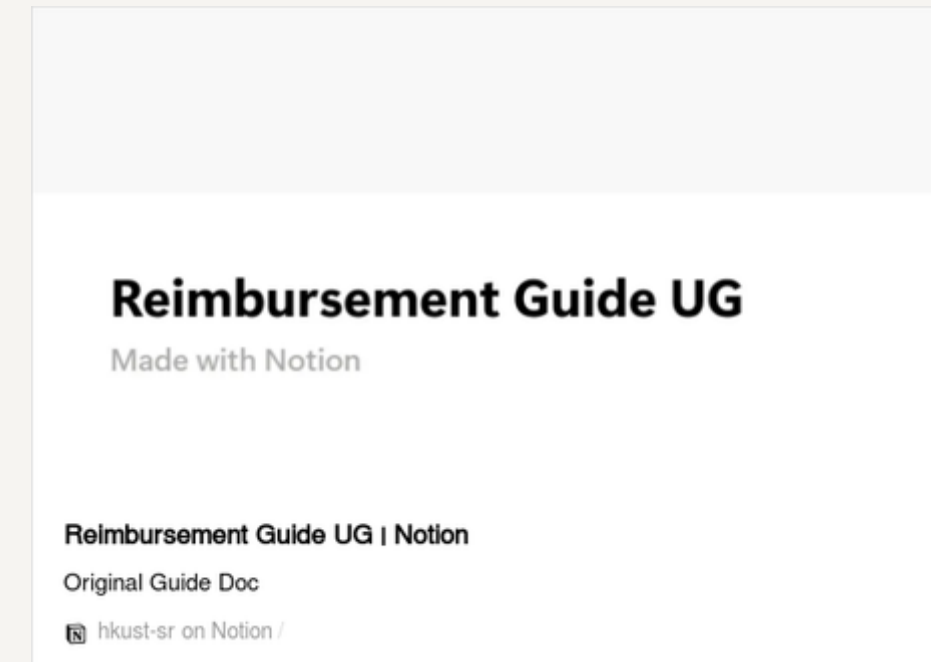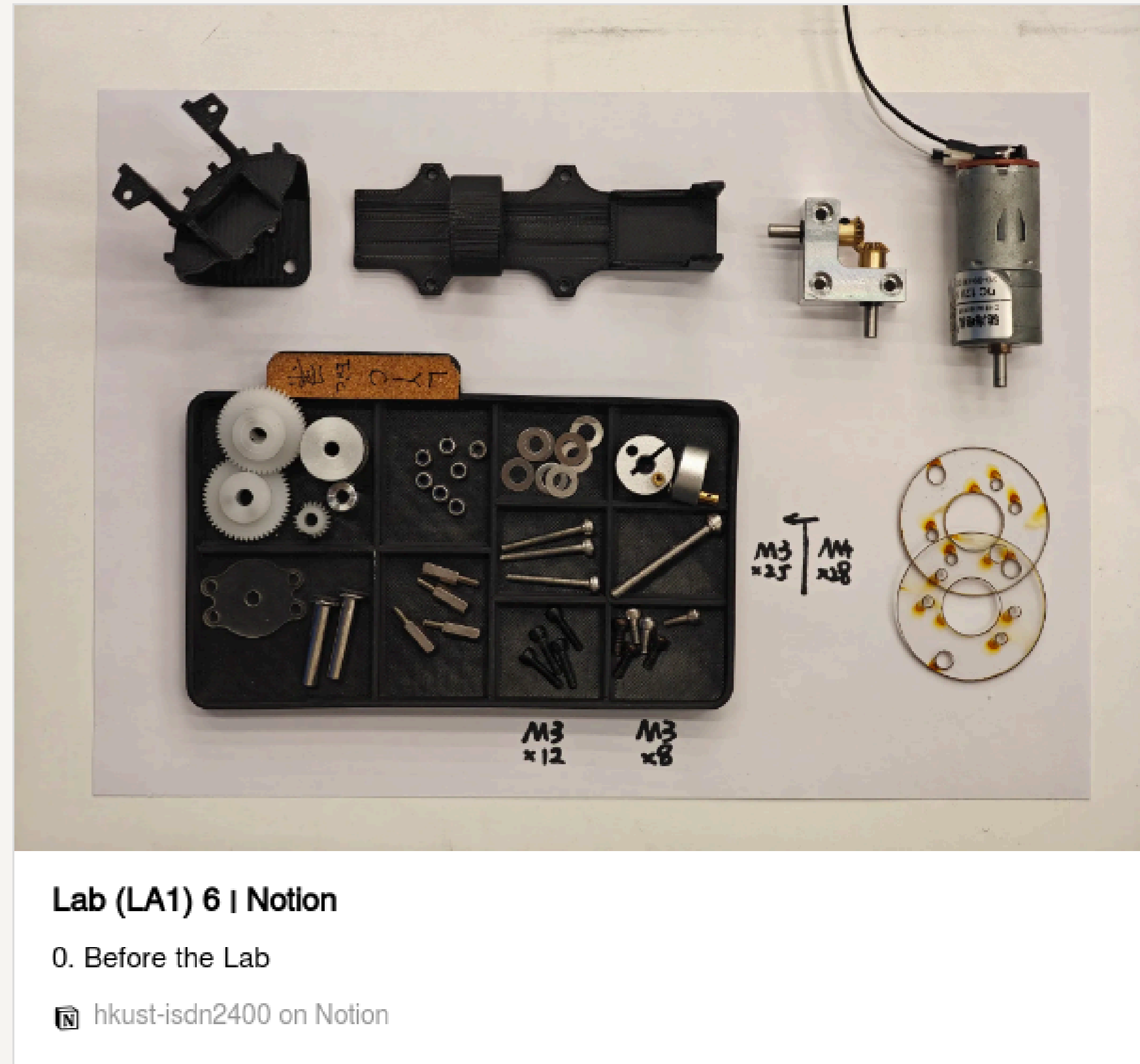
DEMO
DISASSEMBLE

Lab (LA1) 6 | Notion

0. Before the Lab

hkust-isdn2400 on Notion

DEMO
SOLIDWORKS

Lab (LA1) 6 | Notion

0. Before the Lab

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DC MOTOR CONTROL
ASSIGNMENT

DUE MAR 24TH MON 23:59

You only need to show a working gearbox assembly for this lab.
- A video demo showing your working gearbox assembly
  - The gearbox assembly is assembled
  - The motor is rotating (either the motor is rotating or your hand is moving the shaft)
    - **Bonus** if you use the IOT control method that you learnt in the DC motor control Lab
  - The two larger gears are rotating as designed.

Detailed instruction are on Lab **Notion website page**, link can be found on Canvas
https://hkust-isdn2400.notion.site/assembling-lab