Activity : MyCobot Challenging 2025

"The Precision Pick-and-Place Challenge"

Objective:

Participants will compete to complete a series of pick-and-place tasks with accuracy and efficiency using the MyCobot 280 robotic arm and DIY manual robotic arm.

Outline:

01

Activity Information

02

Preparation Parts

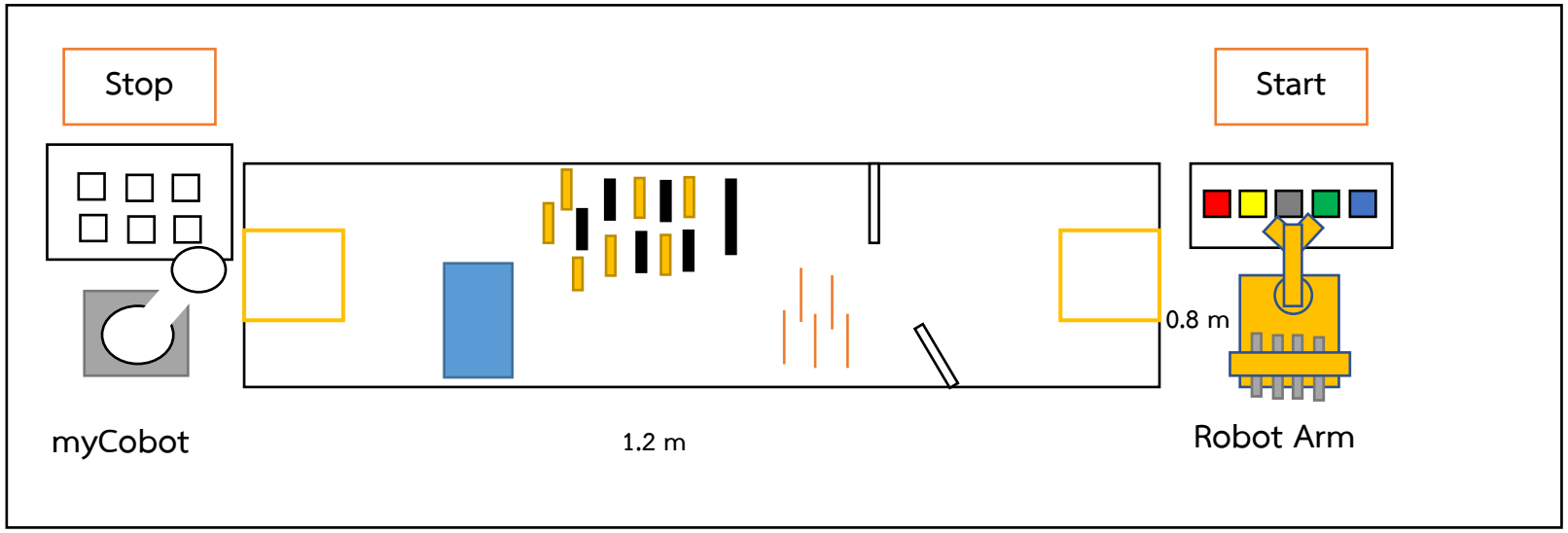
03

Marks & Competition

04

Q&A

Activity Information: Overall



Activity Detail:

1. **DIY Robot Arm**
   - Pick cube at station 1 and place the cube on robot car (Manual Control)
2. **Robot car**
   - Deliver cube on robot car with remote control (Android Application)
   - Modify robot for carry cube
3. **myCobot**
   - Pick cube from robot car and place on the station 3

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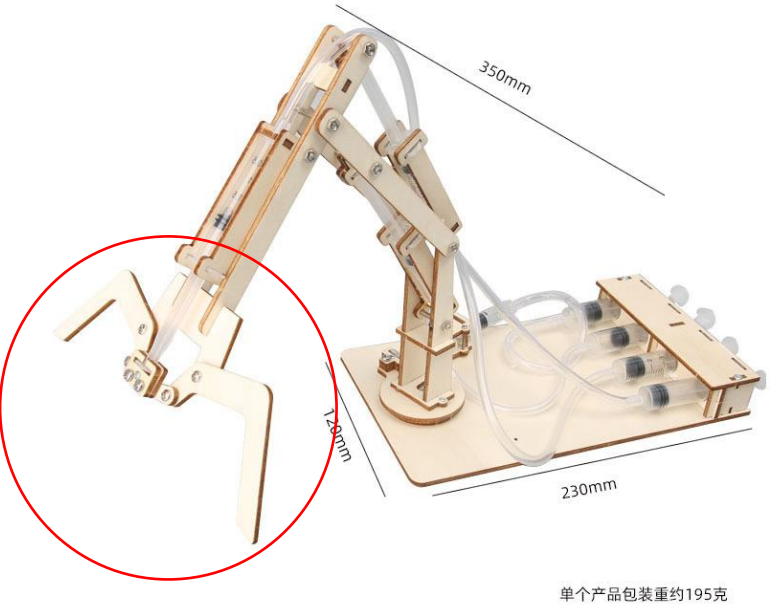
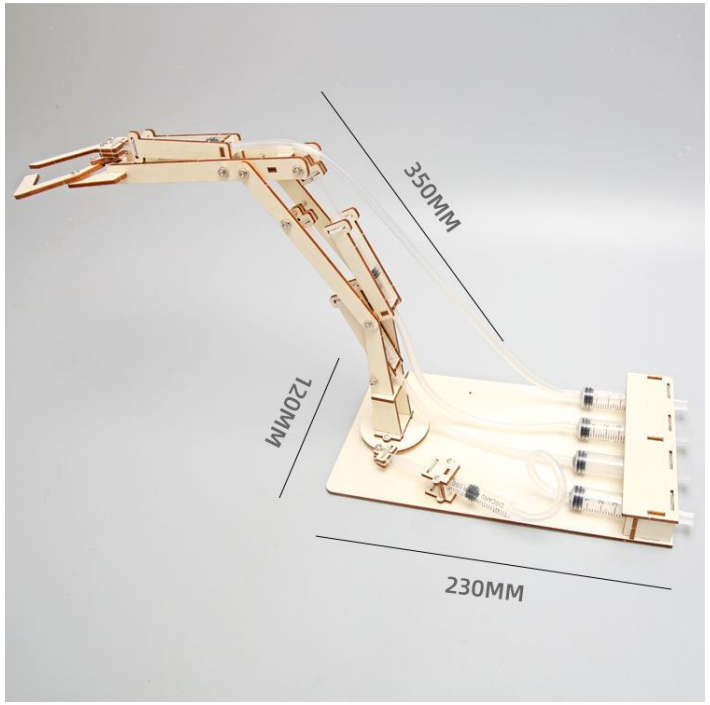
Activity Information: DIY Robot Arm



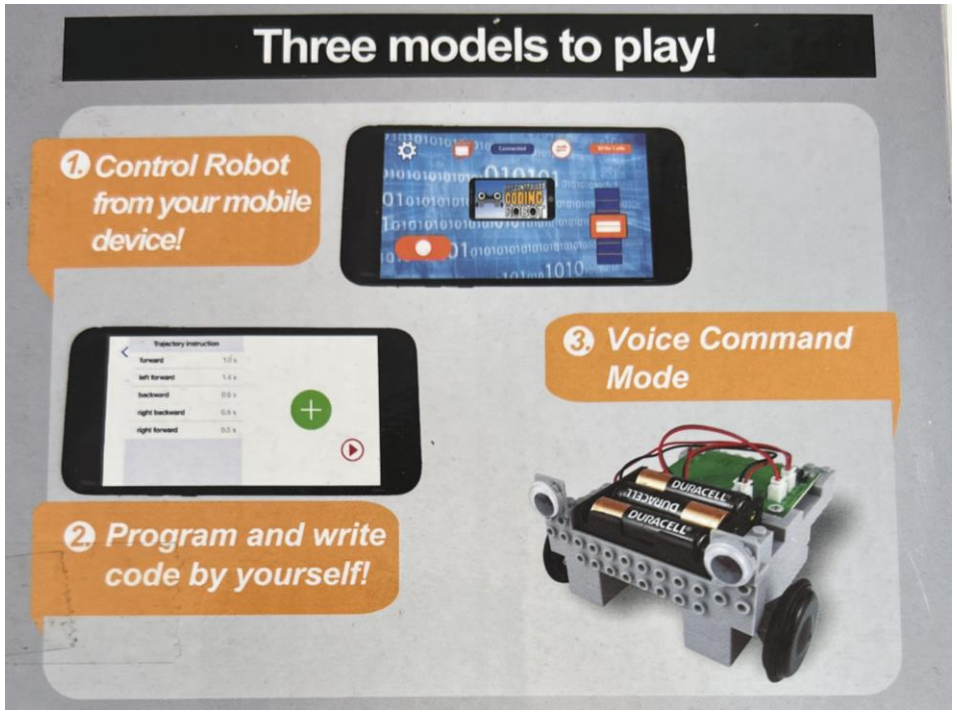


Ref : https://www.sciencetooltrading.com/product/406/ชุด-stem-แบบ-diy-ลูกสูบแขนกลไฮดรอลิก

DIY Robot Arm

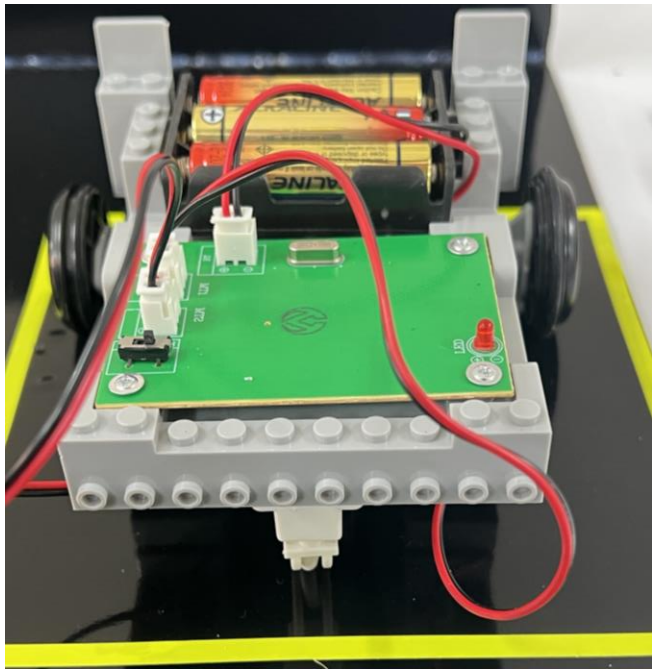
- Pneumatic robot arm
- Manual Control
- Modify gripper for keep the cube

Activity Information: Robot Car

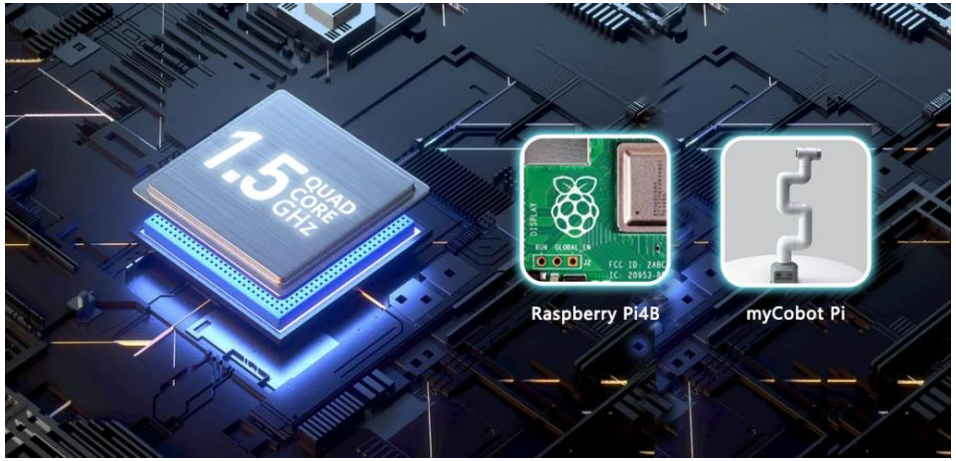


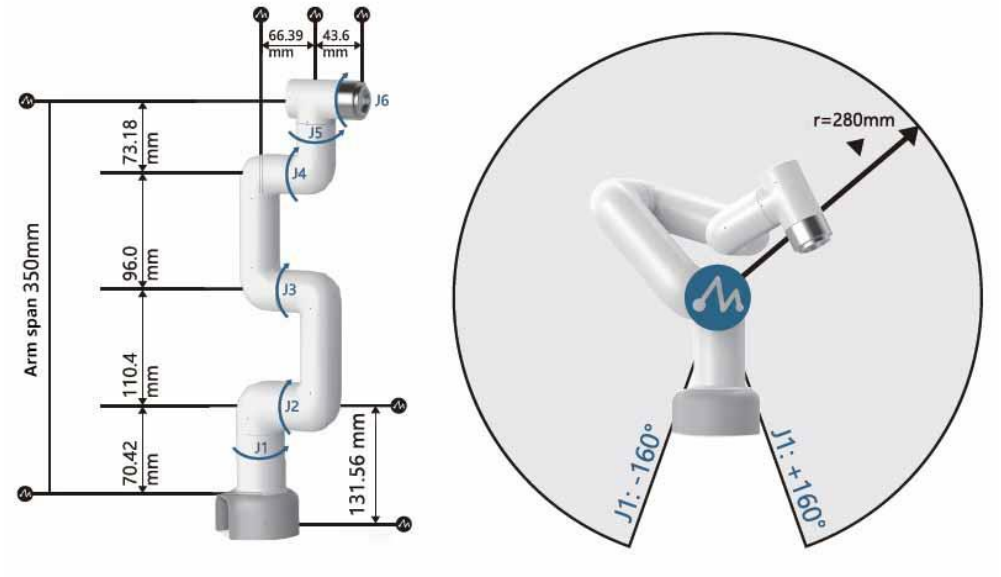
Robot Car

- Android Application
- Manual Control
- Modify car for carry the cube.



Activity Information: mycobot 280





Ref : https://www.elephantrobotics.com/en/mycobot-pi/

myCobot 280

- Pick cube from robot car and place on the station 3
- Template code in Blockly program .

Mechanics and Robotics : myCobot

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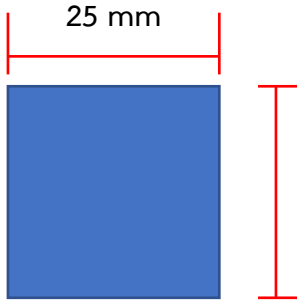
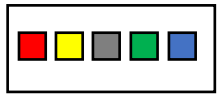
Marks & Competition:

Group	Time	Marks	Reset
A	Only 5 minutes	1 , 2 , 3 , 4 , 5 -> Cube	Reset Count





- The cubes will be random before start competition.

Note :

- Have 5 Race Tracks
- The score will count in these conditions: less time, more marks, less reset.
- Can modify gripper and carry set on robot car.
- Time will count from start until finish competition. (If reset , time will count until 5 minutes)

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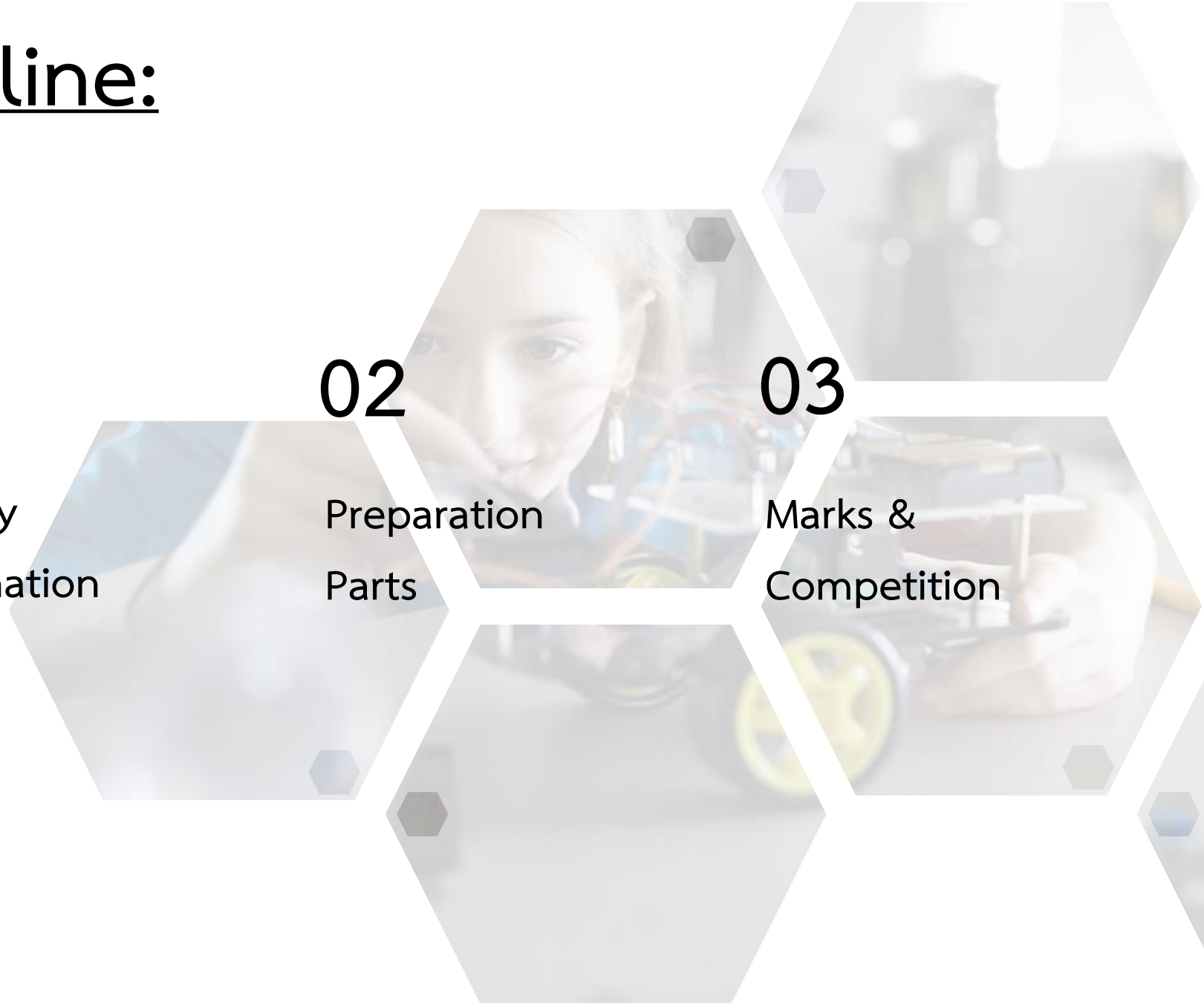

Q&A：


TENG XIN
APP CONTROLLED
ROBOT
Coding
No PC needed!
5+
No PC needed!
DURACELL
DURACELL
DURACELL
Loading...
APP
CONTROLLED


产品零件配图
产品包装图
附带
说明书
液压机械臂
Hydraulic mechanical arm
作品简介
知识原理
操作步骤