# cad2024
# 電腦輔助設計與實習
## 彈珠台設計及程式報告


**組員:**

**41223112-王學澤**

**41223146-蔡秉延**

**41223152-蘇宥齊**

## 個人倉儲

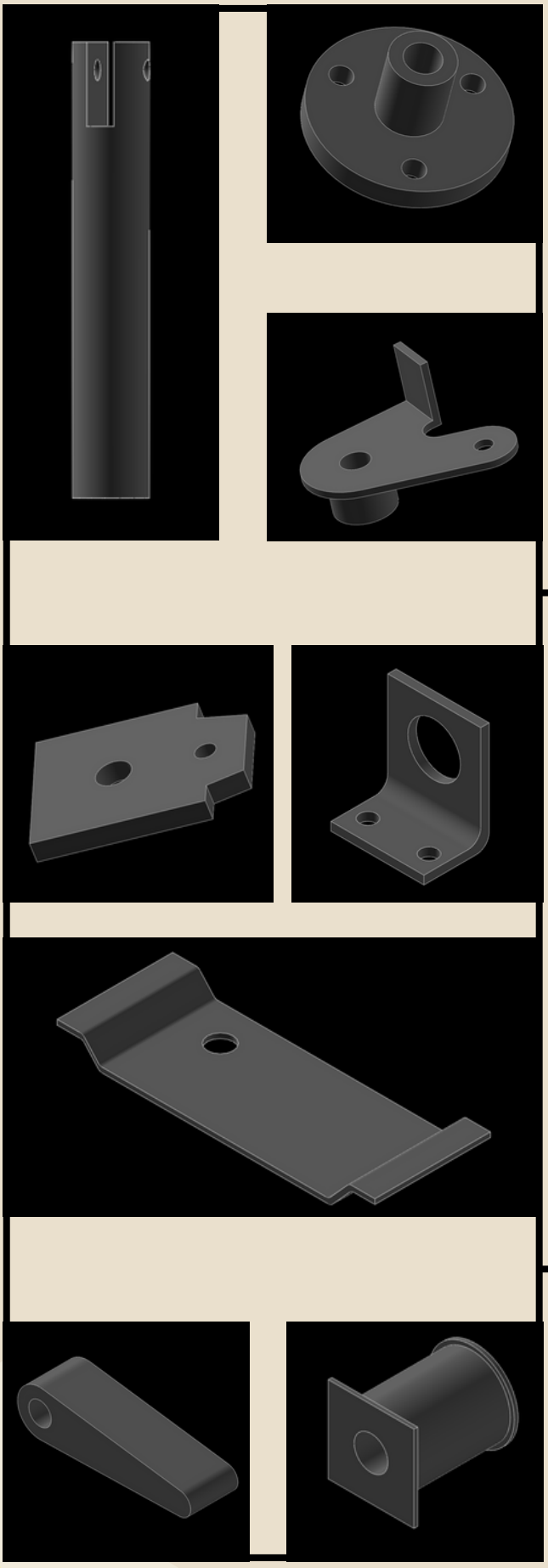
https://github.com/mdecad2024/hw-WSE41223112
https://github.com/mdecad2024/hw-41223146
https://github.com/mdecad2024/hw-41223152

## 個人網站

https://mdecad2024.github.io/hw-WSE41223112/
https://mdecad2024.github.io/hw-41223146/
https://mdecad2024.github.io/hw-41223152/

這是在nx 上面量尺寸，
再到solve space上面畫

# 工作分配



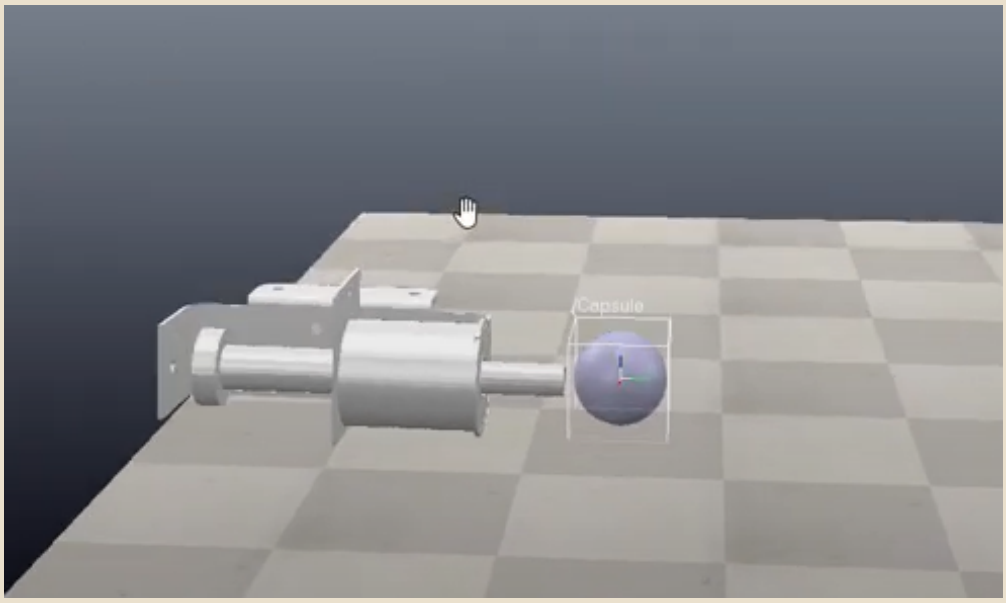
蔡秉延

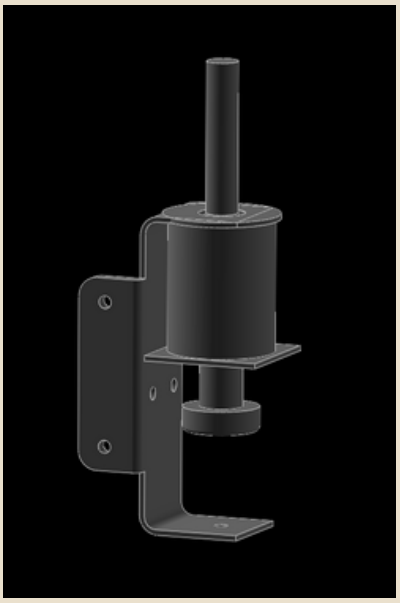
蘇宥齊

王學澤

# 工作分配-程式模擬

41223112-王學澤



發射器推桿外觀

123.py - SciTE

File Edit Search View Tools Options Language Buffers Help

1 123.py

```
# pip install pyzmq cbor keyboard
from coppeliasim_zmqremoteapi_client import RemoteAPIClient
import keyboard

# Connecting to the CoppeliaSim server
client = RemoteAPIClient('localhost', 23000)

print('Program started')
sim = client.getObject('sim')

# Get the handles for the sliders (prismatic joints)
cw = sim.getObject('/cw_joint')
ccw = sim.getObject('/ccw_joint')
slider = sim.getObject('/Prismatic_joint')
```

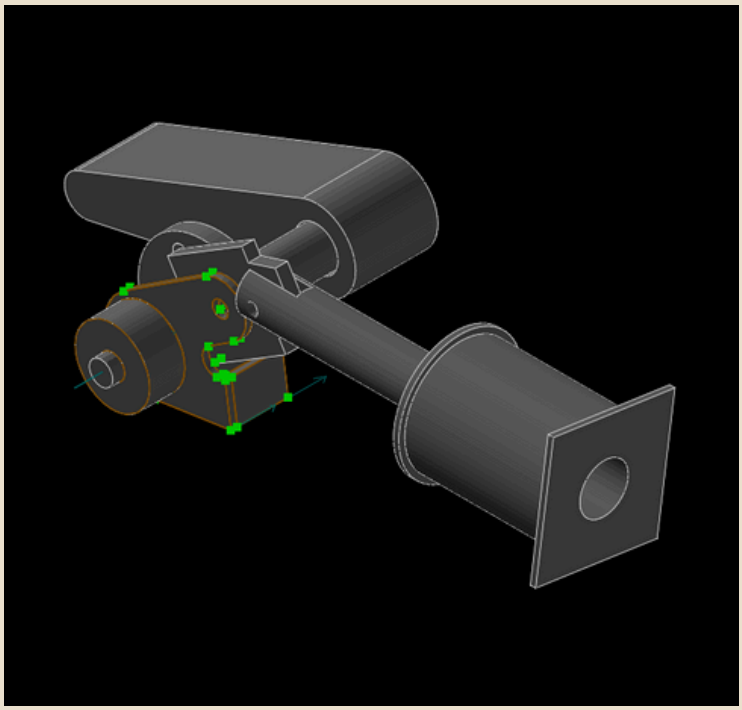
按鍵盤D會往下

按鍵盤E會往上

推桿程式

# 工作分配-程式模擬

41223152-蘇宥齊



左右撥桿

```
# Starting the simulation
sim.startSimulation()
print('Simulation started')

# Main control loop
def main():
    # Keep running until simulation is stopped
    while True:
        # Controls for cw and ccw joints
        if keyboard.is_pressed('p'):  # Move cw slider to -0.25 position
            print("p is pressed")
            sim.setJointTargetPosition(cw, -0.25)

        if keyboard.is_pressed('l'):  # Reset cw slider to the original position
            print("l is pressed")
            sim.setJointTargetPosition(cw, 0.0)

        if keyboard.is_pressed('w'):  # Move ccw slider to -0.28 position
            print("w is pressed")
            sim.setJointTargetPosition(ccw, -0.28)

        if keyboard.is_pressed('s'):  # Reset ccw slider to the original position
            print("s is pressed")
            sim.setJointTargetPosition(ccw, 0.0)

        # Controls for the Prismatic_joint
        if keyboard.is_pressed('E'):  # Move slider to -0.15 position
            print("E is pressed")
            sim.setJointTargetPosition(slider, 4.0)

        if keyboard.is_pressed('D'):  # Reset slider to the original position
            print("D is pressed")
            sim.setJointTargetPosition(slider, 0.0)

        # Stop the simulation
        if keyboard.is_pressed('t'):  # Stop the simulation
            print("t is pressed - stopping simulation")
            sim.stopSimulation()
            break

# Start the main control loop
main()
```

撥桿程式

左撥桿

按鍵盤W、S可以控制撥桿上下

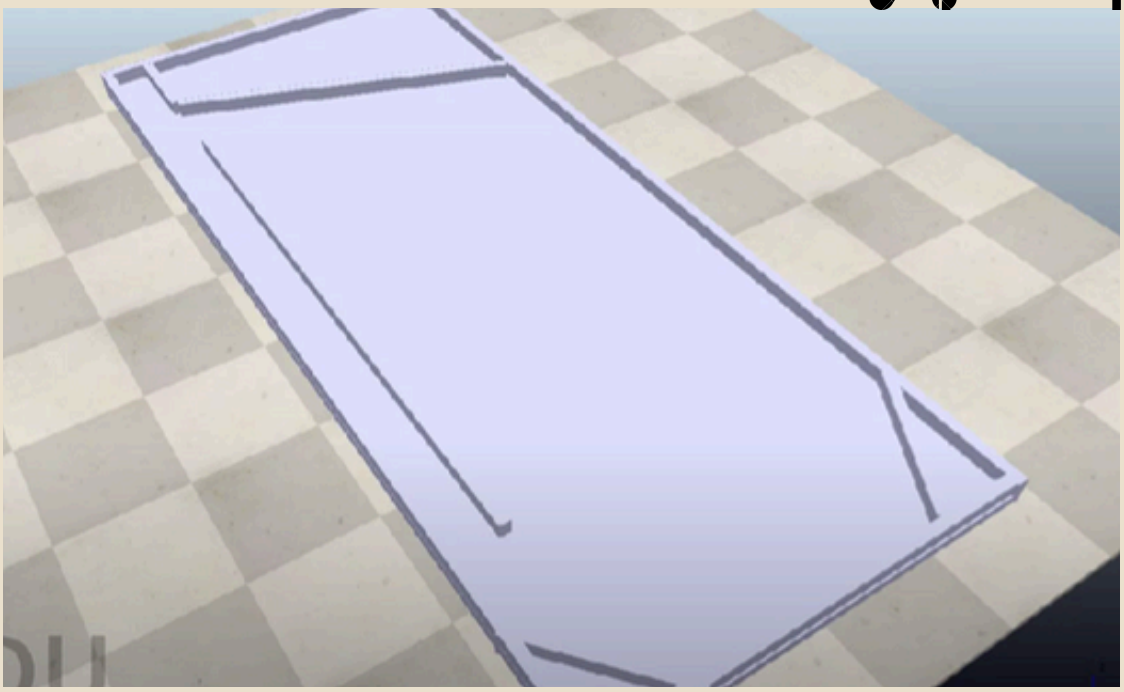
右撥桿

按鍵盤P、L可以控制撥桿上下

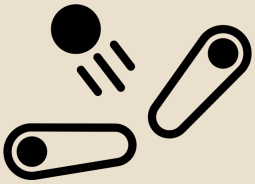
# 工作分配-設計彈珠台

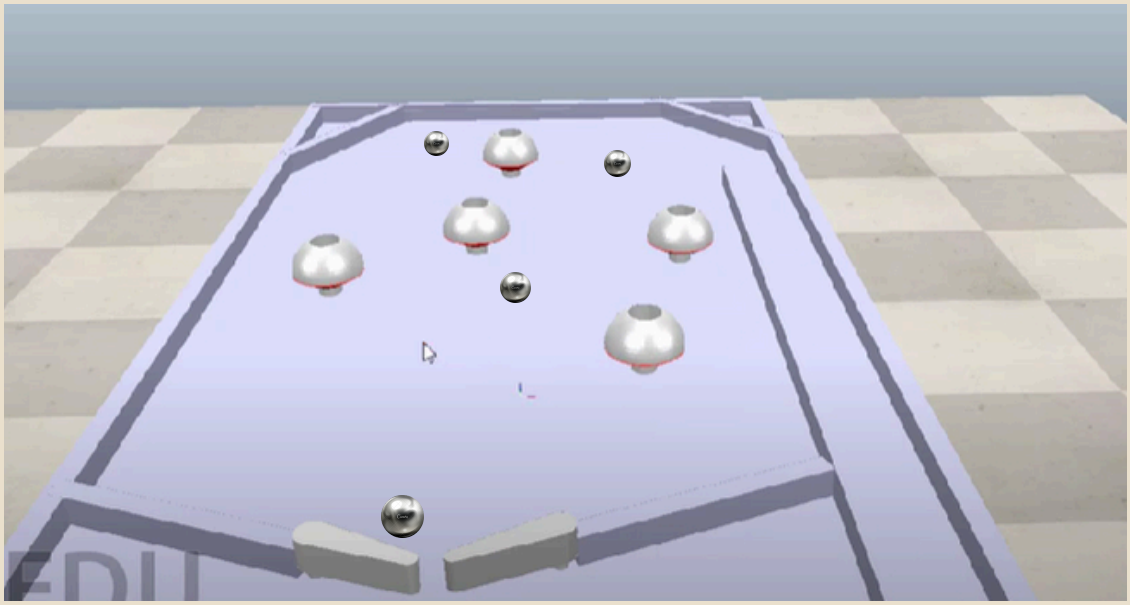
41223146-蔡秉延

## 機台主體設計

## 內部結構設計





# 成品