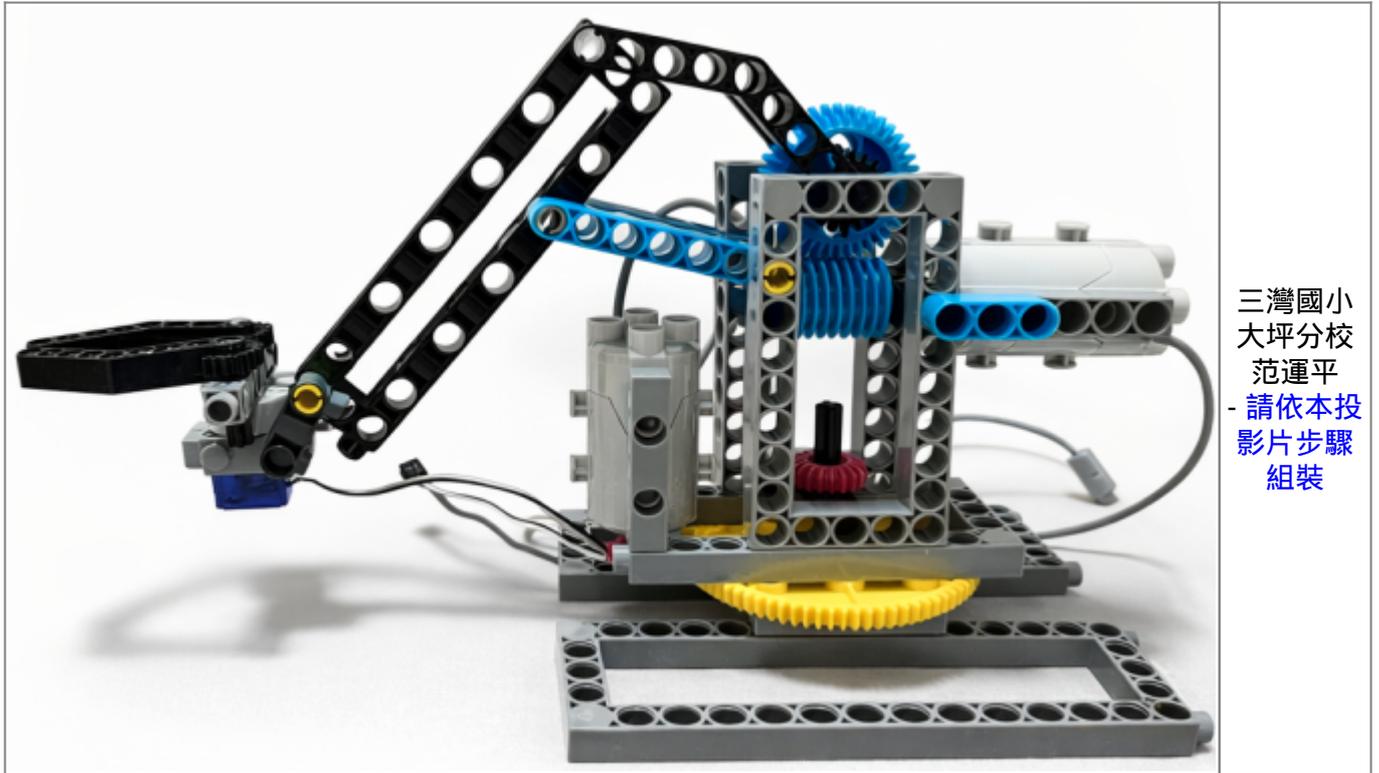




Microbit機械手臂



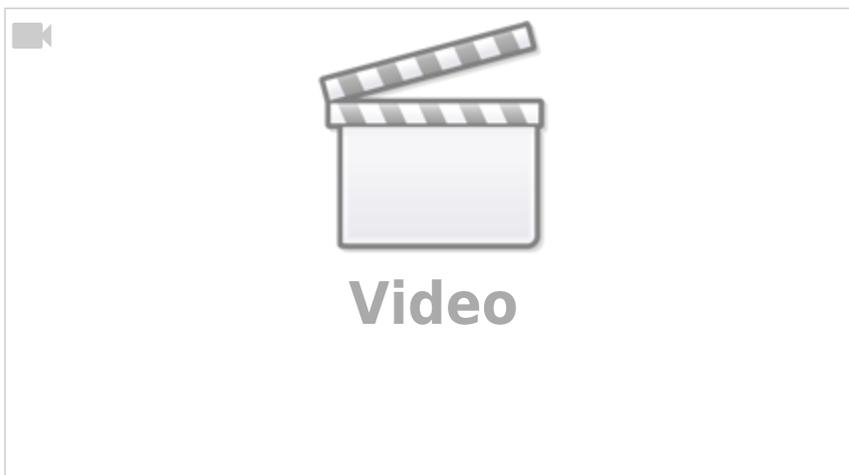
三灣國小
大坪分校
范運平
- 請依本投
影片步驟
組裝

任務說明

利用2段式按鈕開關+主機上的AB鍵控制機器手臂做出夾放物、伸縮吊臂及旋轉平台等功能。

graph LR; 壓下開關/夾爪夾緊 --> on+按A鍵/吊臂上升; 壓下開關/夾爪夾緊 --> on+按B鍵/吊臂下降; 放開開關/夾爪放開 --> off+按A鍵/機座順時針轉; 放開開關/夾爪放開 --> off+按B鍵/機座逆時針轉;

影片示範



程式參考

```
repeat_infinite_times
  if_pin_pressed(P0) then
    servo_write_position(P16, 74)
    if_button_pressed(A) then
      motor_channel(A)
      speed_value_selected(50)
      motor_direction_control(0)
    else_if_button_pressed(B) then
      motor_channel(A)
      speed_value_selected(50)
      motor_direction_control(1)
    else
      motor_channel(A)
      speed_value_selected(0)
      motor_direction_control(0)
  else
    servo_write_position(P16, 39)
    if_button_pressed(A) then
      motor_channel(B)
      speed_value_selected(20)
      motor_direction_control(0)
    else_if_button_pressed(B) then
      motor_channel(B)
      speed_value_selected(20)
      motor_direction_control(1)
    else
      motor_channel(B)
      speed_value_selected(0)
      motor_direction_control(0)
```

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