

The background is a white canvas decorated with various watercolor-style elements. There are several large, overlapping circles in shades of teal, yellow, and orange. Interspersed among these are smaller, five-pointed stars in yellow and orange, some with radiating lines. There are also some black, brushstroke-like marks scattered across the page.

成功國中參訪

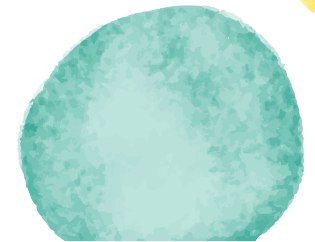
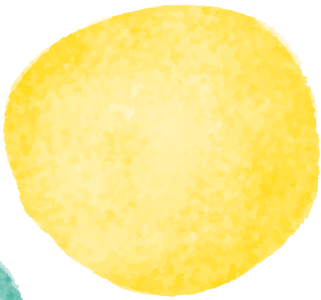
成大南工電子科歡迎您
課程教師：洪廷欣、郭嘉峻

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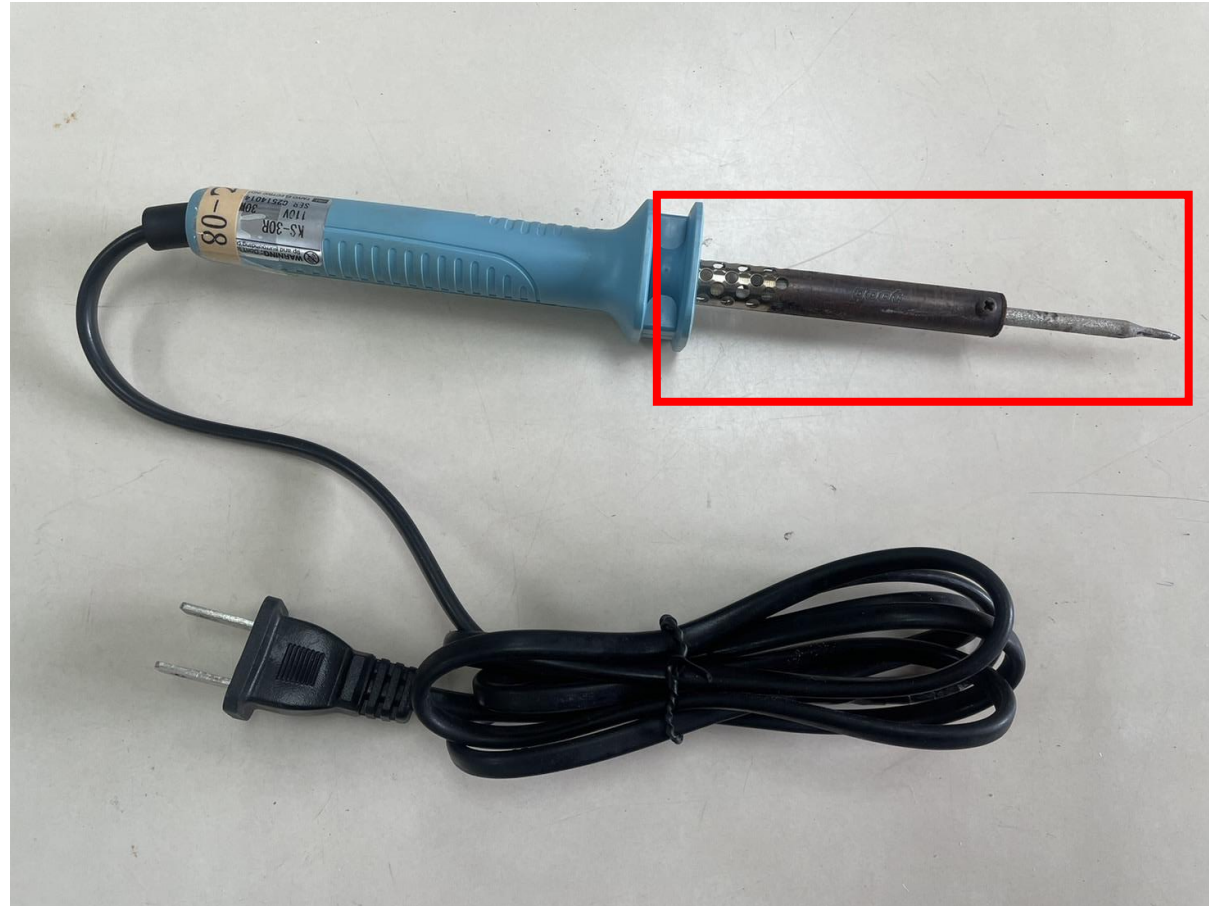


主題：電子陀螺(LED燈光)



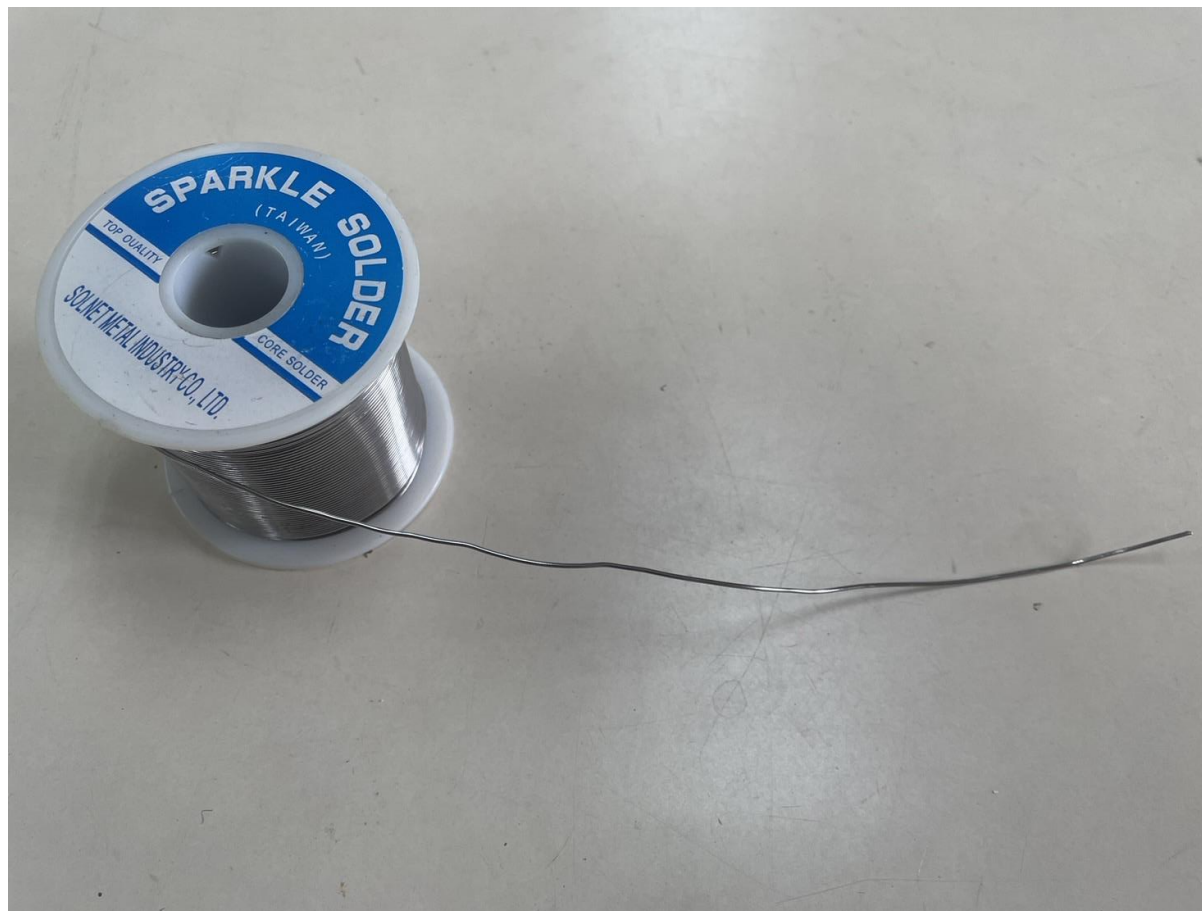
成品展示(無燈光環境下)

工具介紹(安全)



工具1：烙鐵
(上電後紅框部分要小心)
200 至480 °C

工具介紹(安全)



工具2：錫線
(185 °C 融化)



工具介紹(安全)



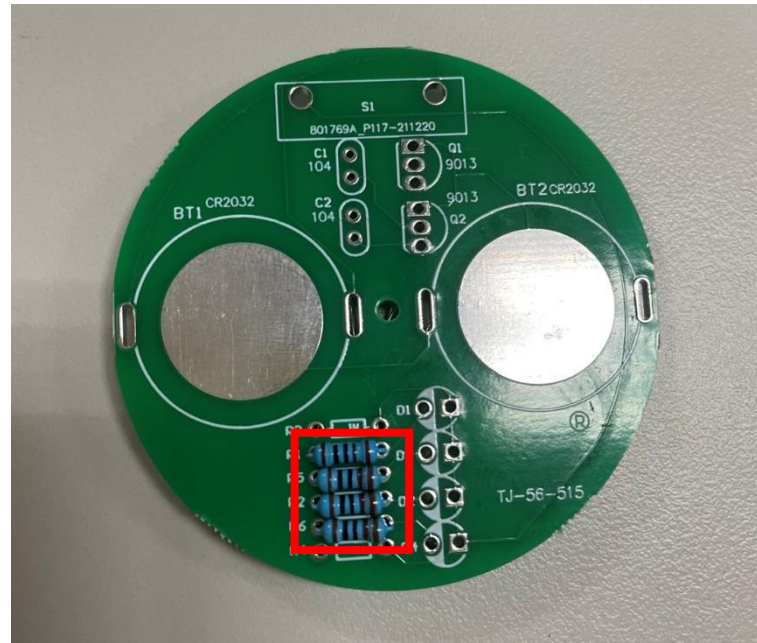
工具3：烙鐵架

工具4：海綿(濕)
(剔除烙鐵頭多餘的錫)

電子陀螺(科技)



電阻R1、R5、R2、R6
(1KΩ) 棕黑黑棕棕
(棕棕黑黑棕)

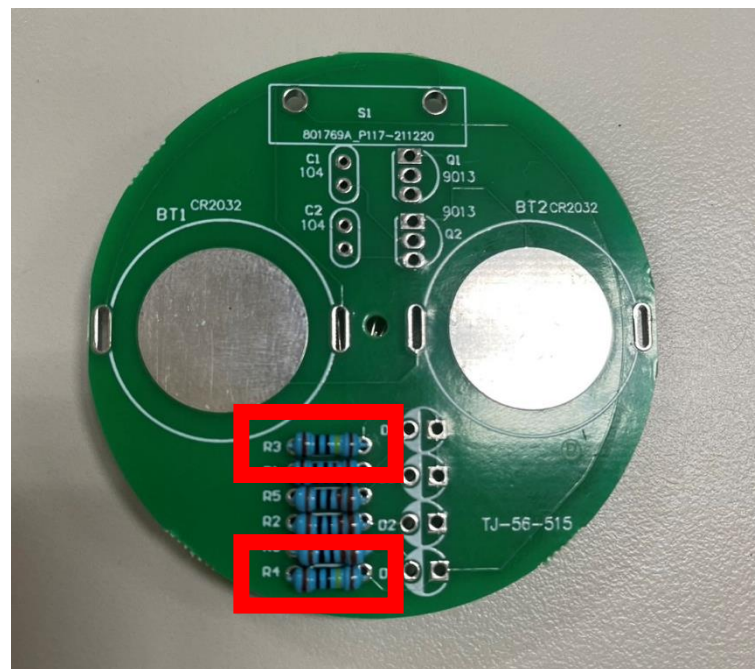


電子陀螺(科技)

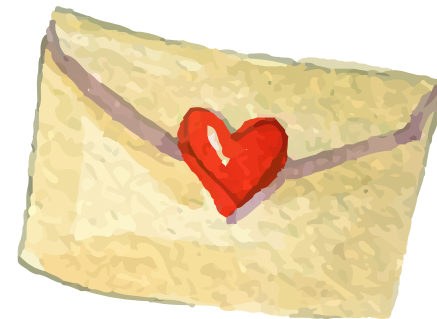


電阻R3、R4(1MΩ)

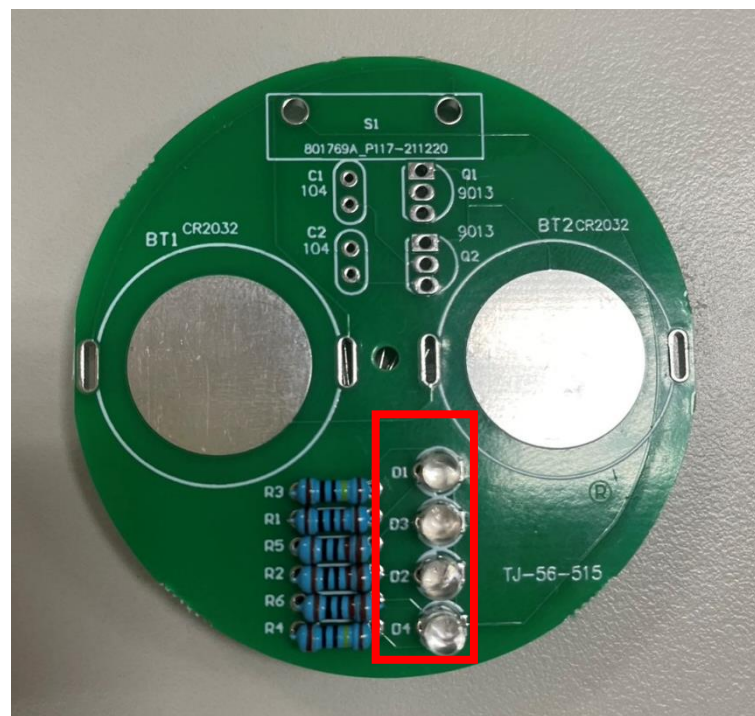
棕黑黑黃棕
(棕黃黑黑棕)



電子陀螺(科技)

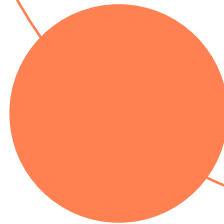
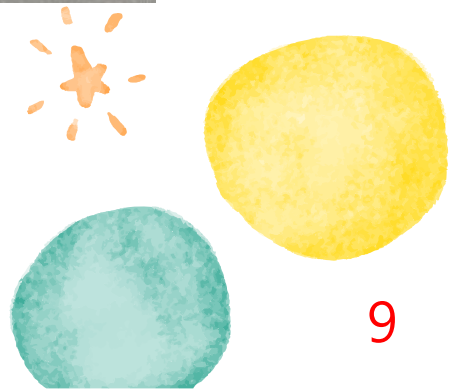
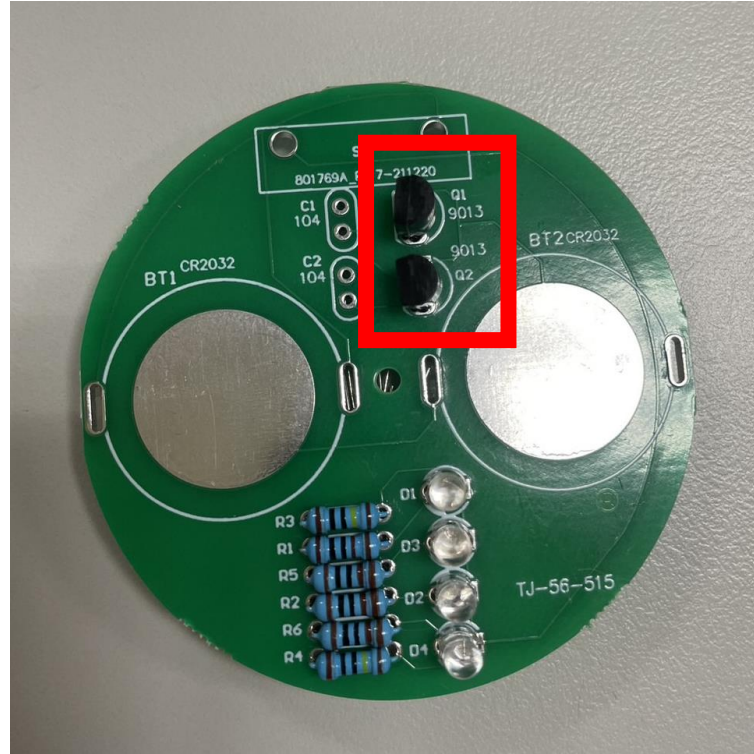


LED(D1、D2、D3、D4)
長腳是**正**



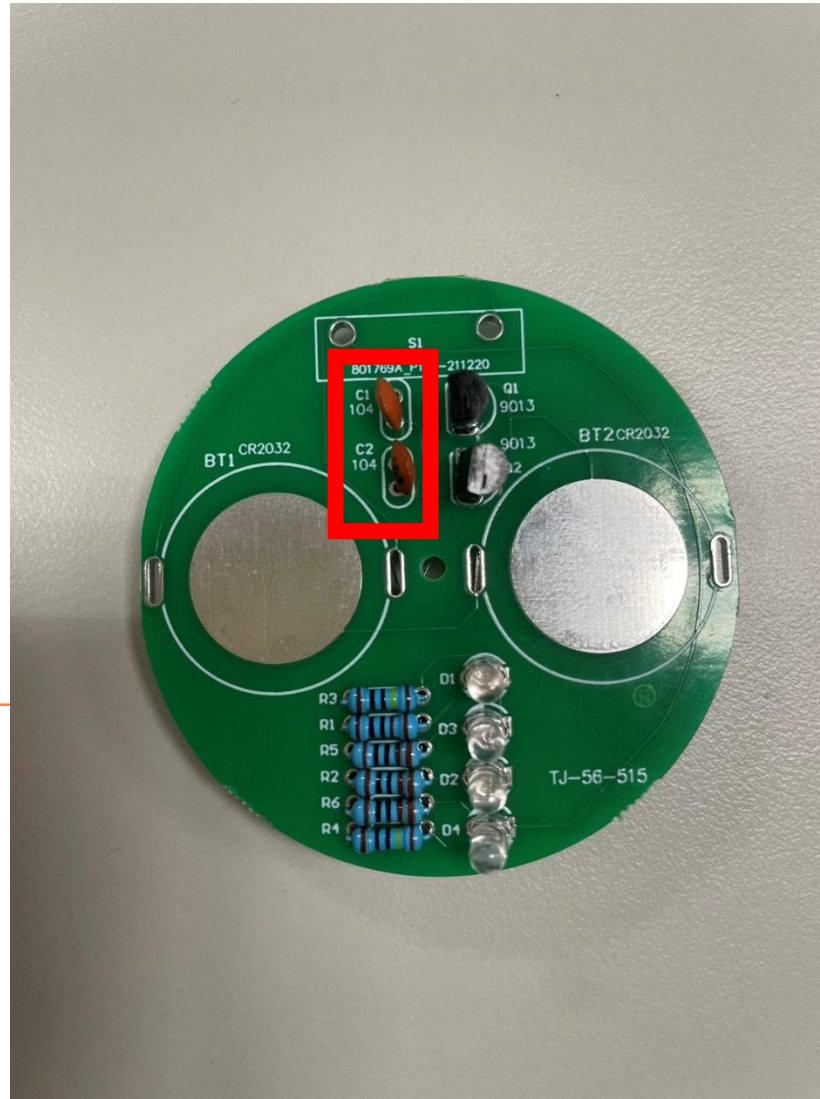
電子陀螺(科技)

電晶體Q1、Q2
(9013)

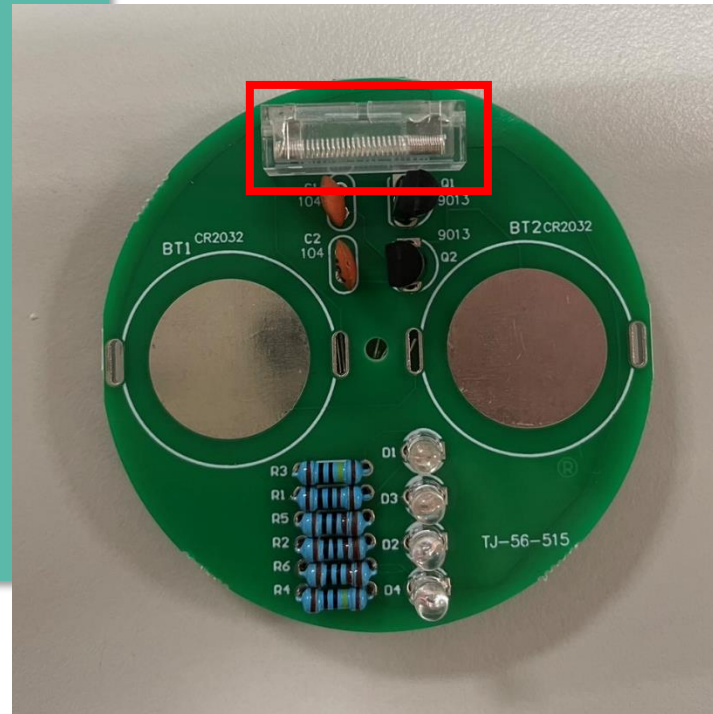


電子陀螺(科技)

陶瓷電容C1、C2 (104)



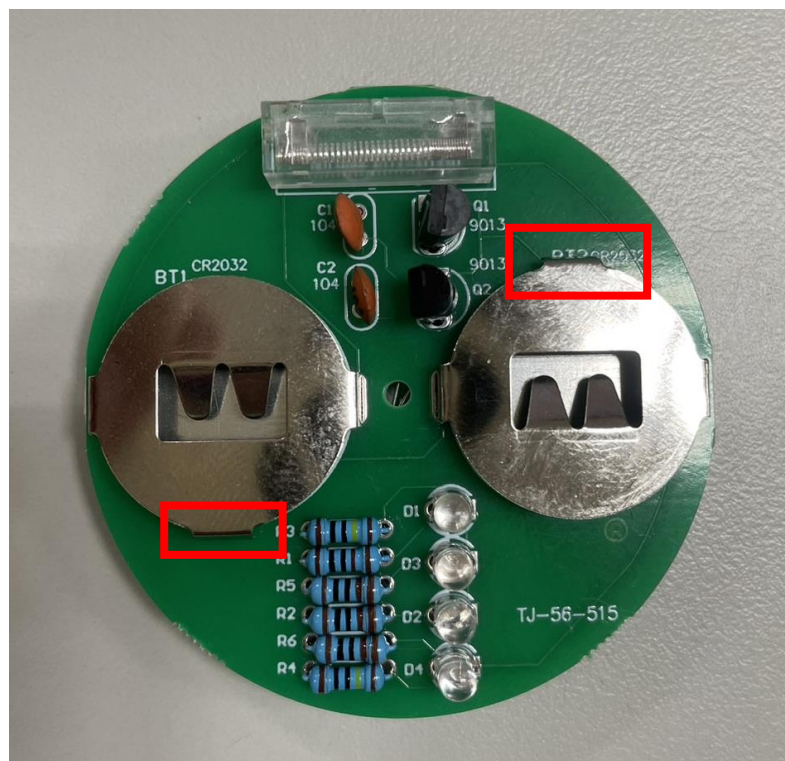
電子陀螺(科技)



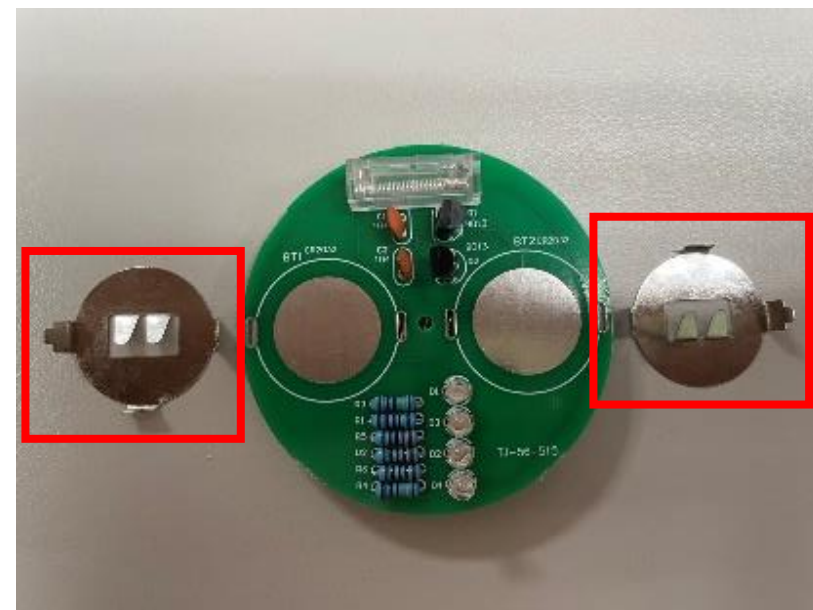
震動開關
(注意離心力方向)



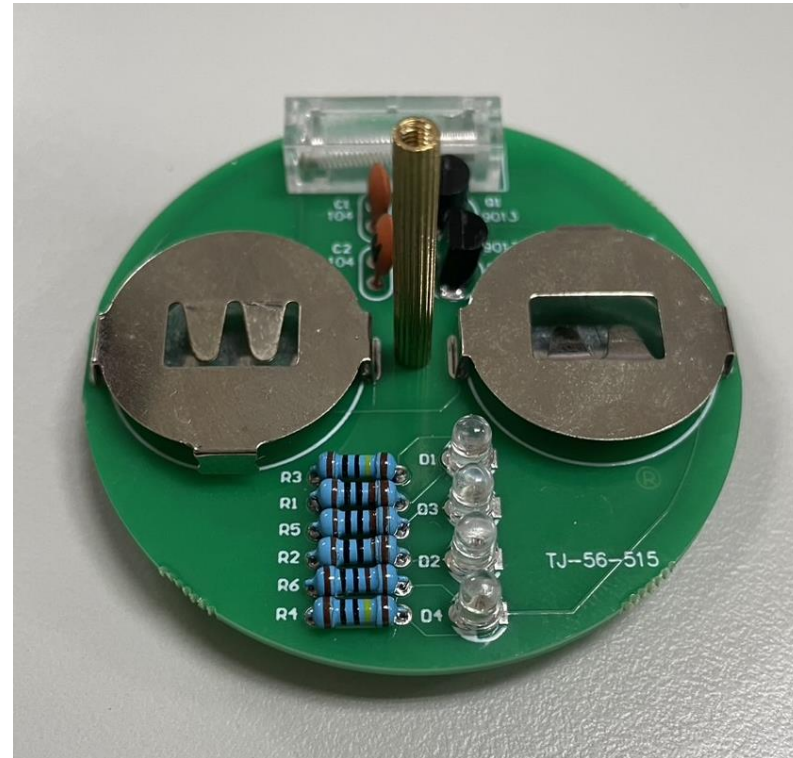
電子陀螺(科技)



電池扣(鈕扣型)



成品展示(創意)



成品，大功告成！

組裝螺絲





感謝大家的聆聽

THANKS YOU