Photon (microcontroller)

Left pins (top to bottom): VIN, GND, TX, RX, WKP, DAC, A5, A4, A3, A2, A1, A0

Right pins (top to bottom): 3V3, RST, VBAT, GND, D7, D6, D5, D4, D3, D2, D1, D0

+5 → VIN

MOTOR DRIVER

IN4 — buffer (pins 12, 13, 11)
IN3 — buffer (pins 9, 10, 8)
IN2 — buffer (pins 5, 4, 6)
IN1 — buffer (pins 2, 1, 3)

USB +5 → MOTOR DRIVER +5V

100 μf   0.1   0.1

→ MOTOR DRIVER GND

SN74HCT125N
+5 → pin 14
GND → pin 7

Note: Sequence
for stepper using
stepper library is
IN1, IN3, IN2, IN4
= D2, D4, D3, D5

Stepper #steps
in 1 Rev = 2038
Platen gear ratio:
85:15

Step Sequence:
IN: 4 3 2 1
0 1 1 0
1 1 0 0
1 0 0 1
0 0 1 1