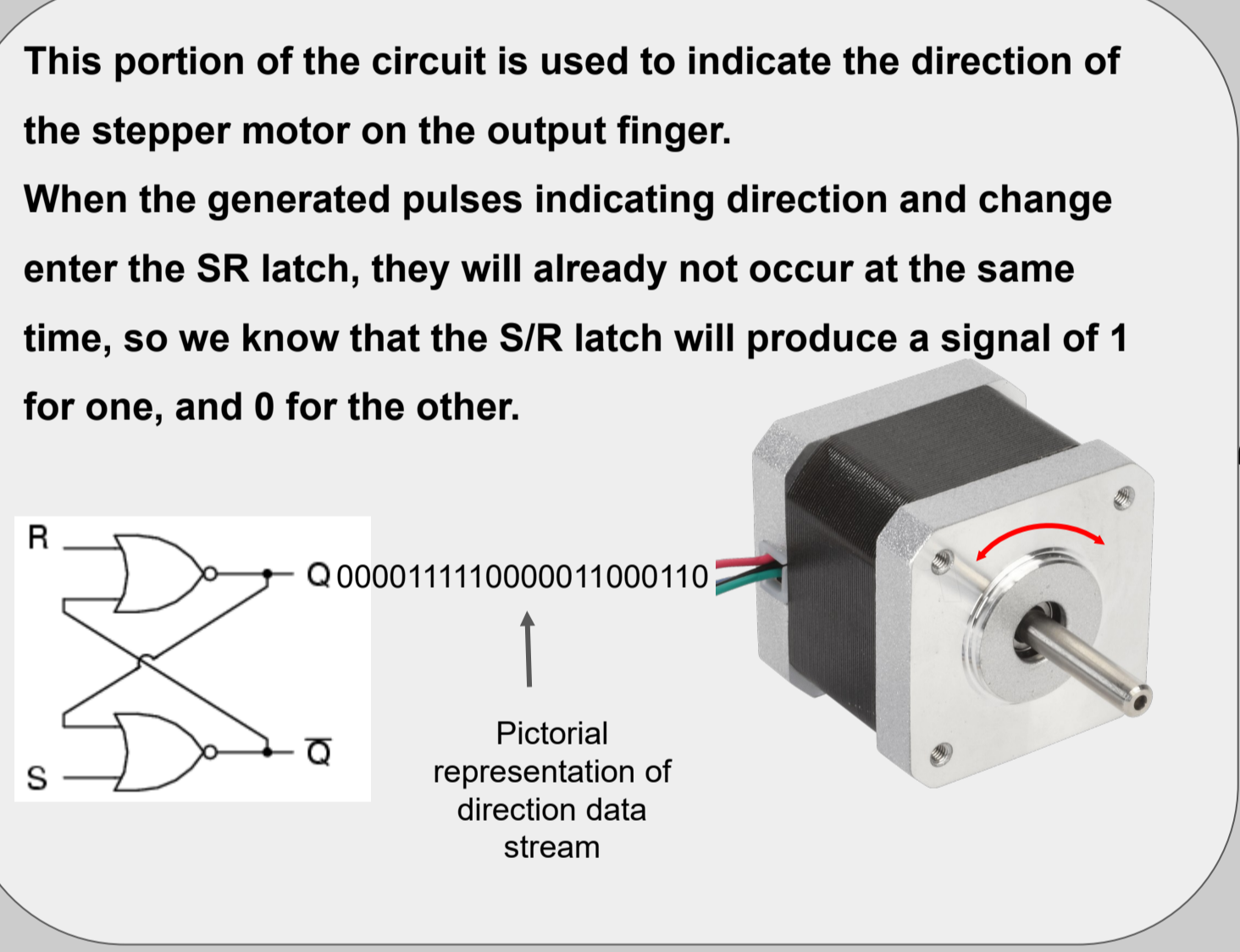
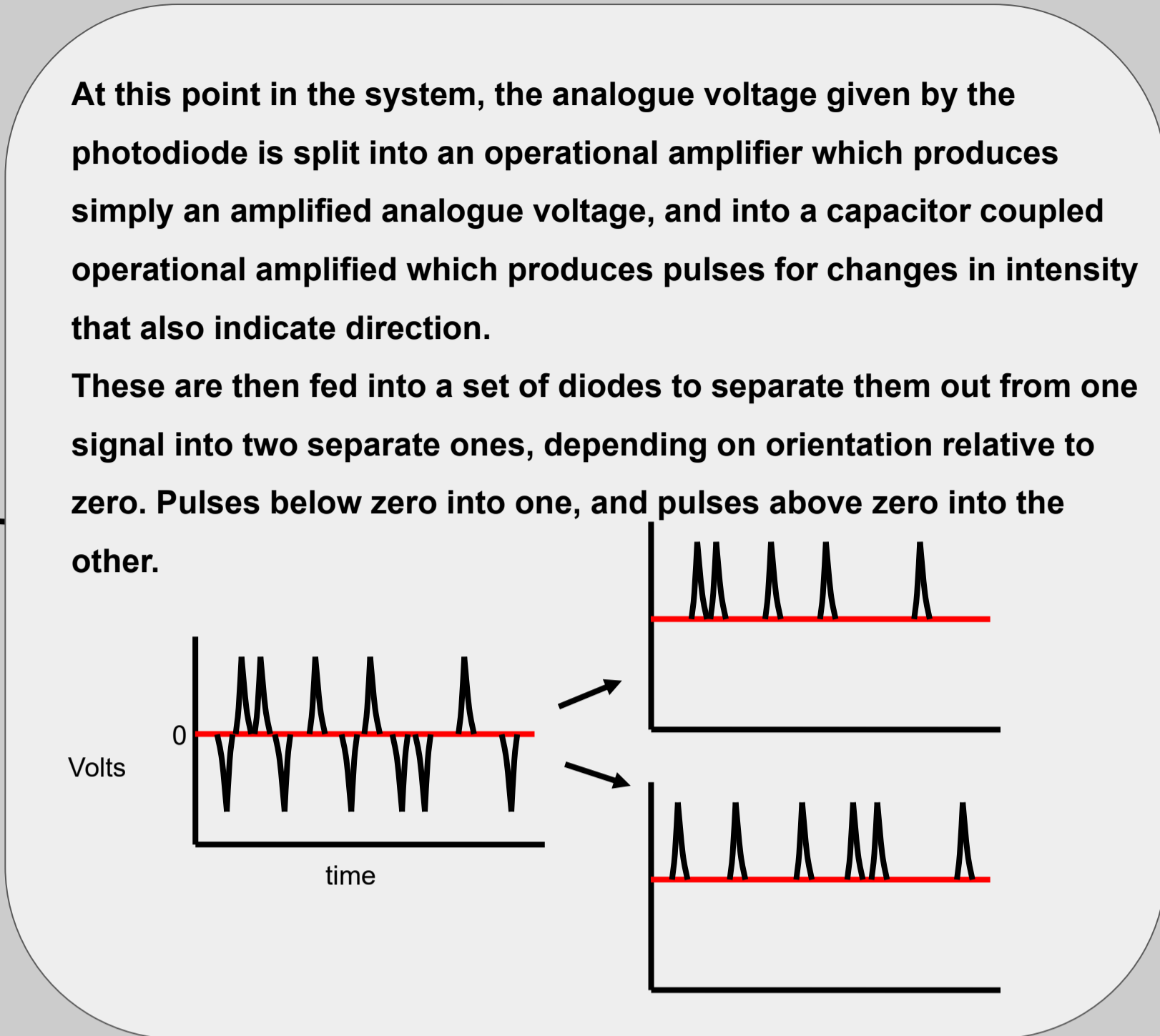
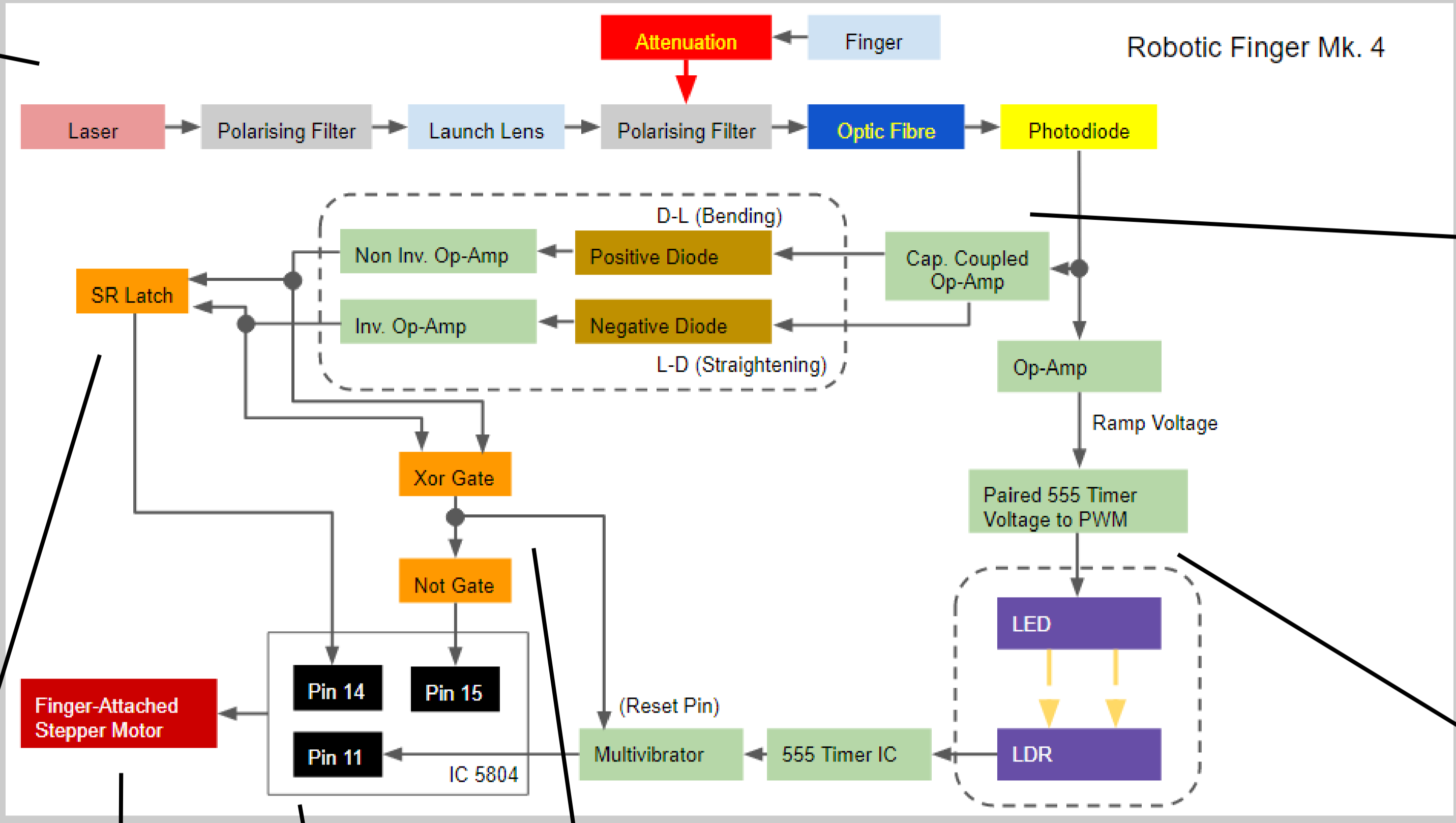
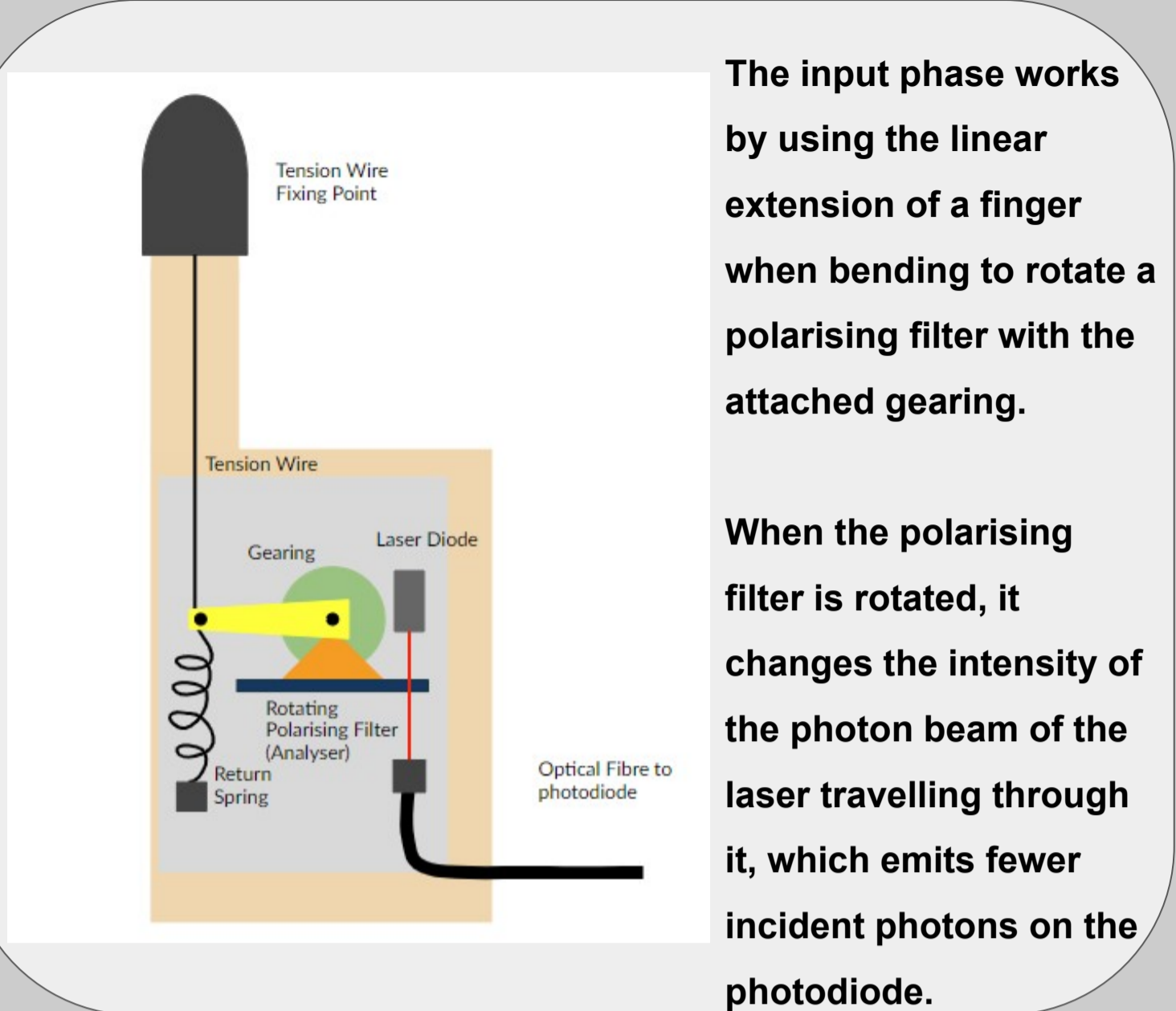


# Robotic Finger Controlled via Triple Photon Polarisation



Here, both pulsed signals indicating changes in intensity are entered into an xor gate. The xor gate will determine if either of them are active (on). If neither are on, the interrupts for both the multivibrator and the stepper motor driver will be engaged and they will stop until they are required again.

When either a dark to light or light to dark signal enters the xor gate, it will enable both the multivibrator and stepper driver, and will allow the finger to move.

At this point, analogue voltage representing the intensity of the photon beam is converted into a PWM signal by paired 555 timers. This is then fed into an LED, which is received by a light dependent resistor coupled with the multivibrator circuit for the stepper driver step signal.

This means that when the stepper is enabled, the analogue voltage of the intensity (and thus location of the finger) is directly converted into the step signal for use in the stepper driver.

