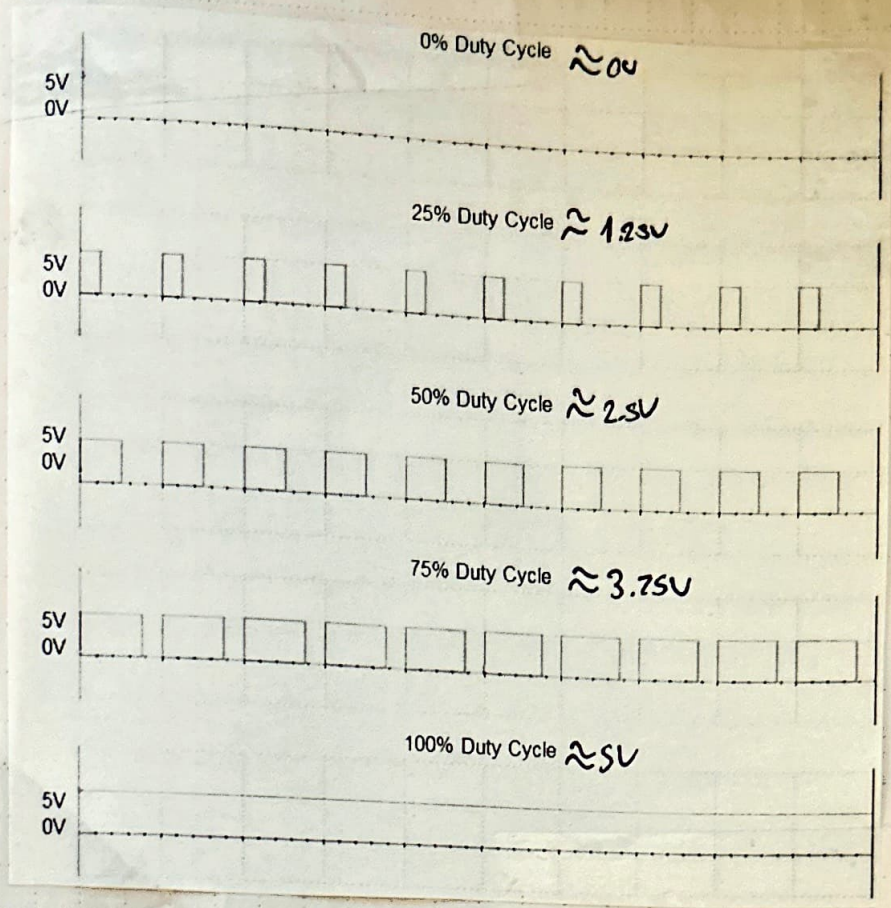

Assume 1Hz Clock

Always off

Blinks once/second briefly

Blinks once/second on 1/2 the time

Blinks once/second off briefly

Always on

PWM transmitted by a microcontroller (theoritically)

- Pulse width modulation is a technique for getting analog results through digital means.
- Digital control is used to create a square wave
- This On-Off pattern can simulate voltages in between full-on (5V) and off (0V) by changing the portion of the time the signal spends on versus the time that the signal spends off.

PWM recieved by a micro controller

- A microcontroller can compare the time high to the time total to that ratio.
- These comparisons are limited to a number from 0 - 255

Accelerometers

The mechanic 2125 is a 2-axis accelerometer capable of measuring up to ±2g.
2 pins emit pulses that correspond to the acceleration from the axis
By measuring the length of the pulse, a microcontroller can read the rate of acceleration.

Servos

Vex 2-wire motors with motor controllers 2a.
Like a motor controller can translate power signals to move the motor.

Signature: Jim	Date: 3/18/25	Team Members:
Witness:	Date:	
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