



1. ESP32 powered via USB (5V). Servos powered via external 6V supply.
2. GND\_CM = Common ground between ESP32 and 6V supply.
3. Joystick powered from 3.3V. LEDs active-high at 3.3V with 220  $\Omega$  resistors.

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**Title: ESP32 Turret Control Rev-A**

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