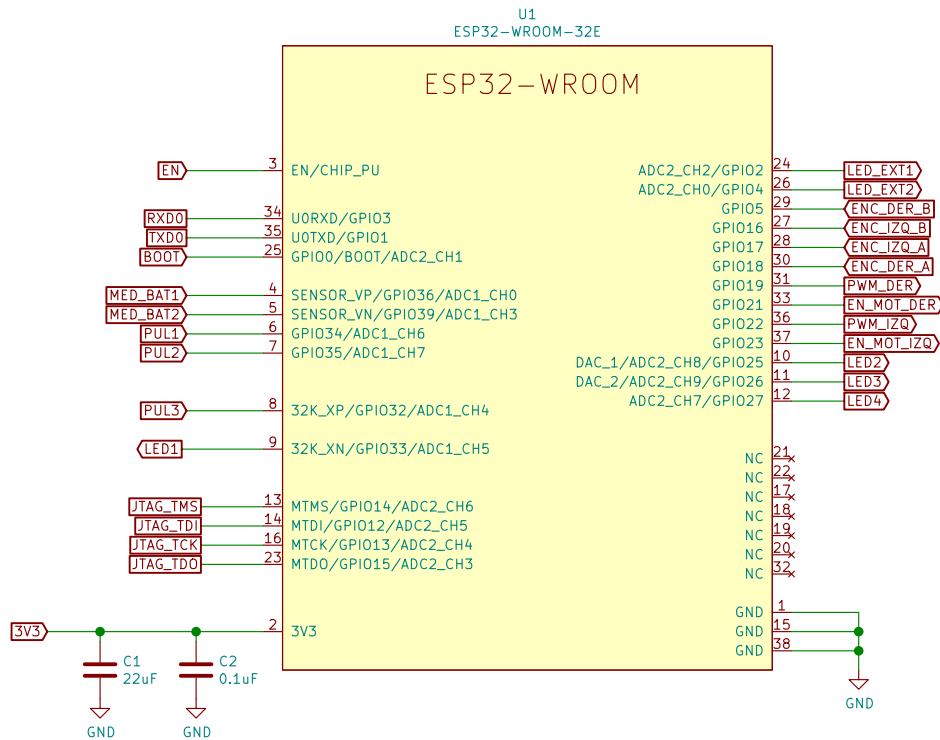
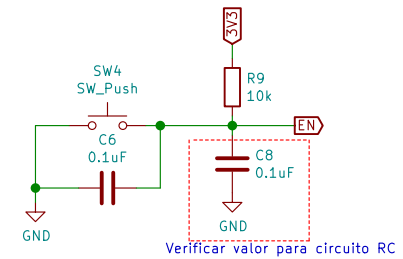


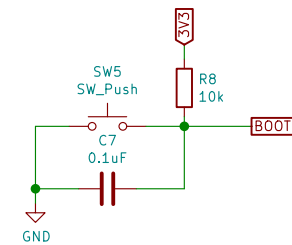
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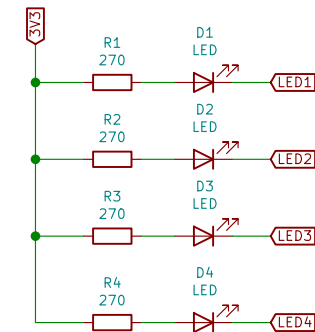
PULSADOR RESET



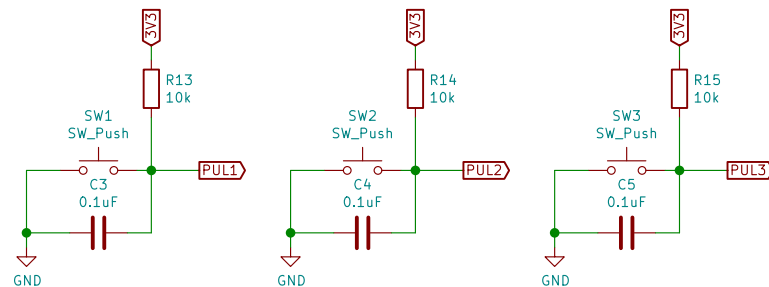
PULSADOR BOOTLOADER



LEDS PROPOSITOS GENERALES



PULSADORES PROPOSITOS GENERALES

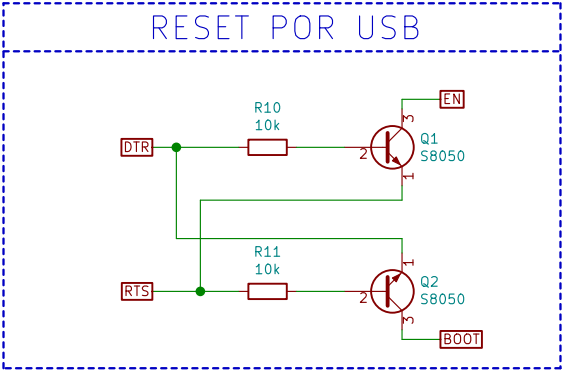
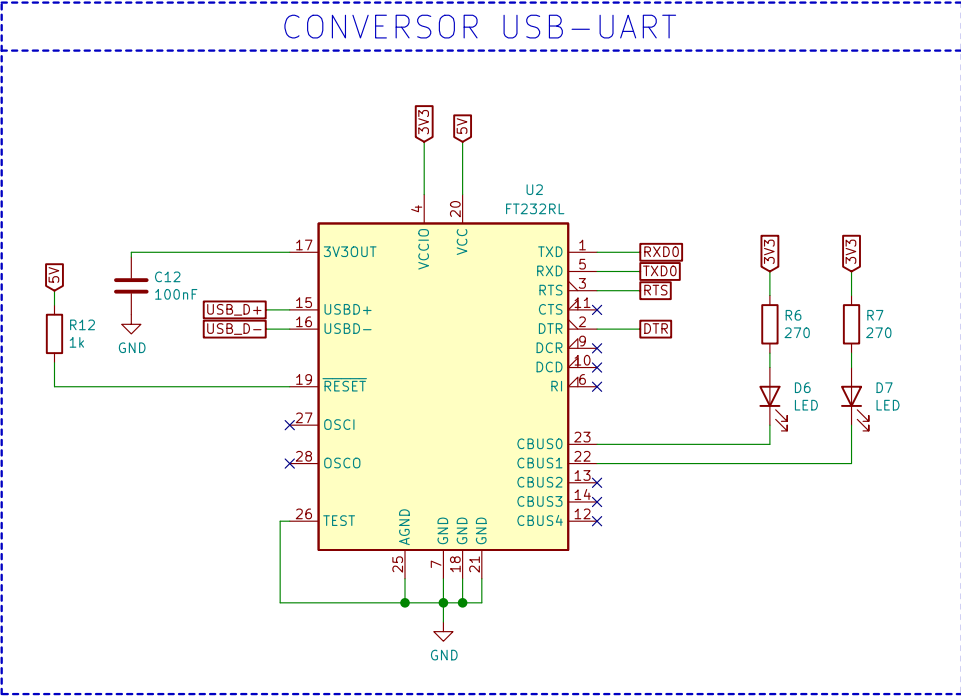
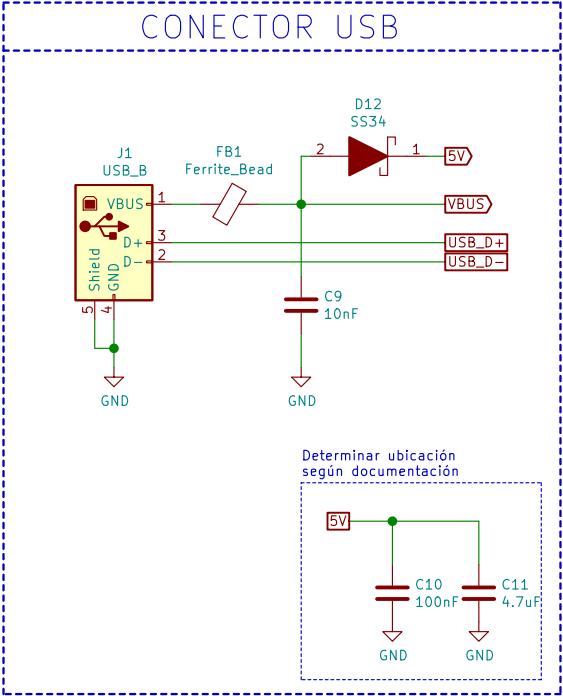


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Title: Controlador embebido para robot de tracción diferencial

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Sheet: /USB-UART/
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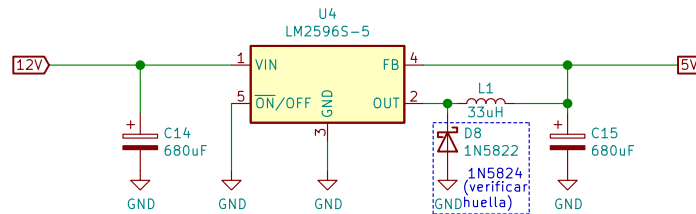
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Id: 3/5

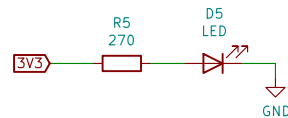
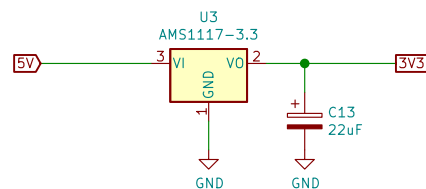
REGULADOR 5V (BUCK)

The diagram illustrates a 5V Buck converter circuit. The input is a 12V source connected to the VIN pin (pin 1) of the LM2596S-5 regulator (U4). A 680uF capacitor (C14) is connected between the input and ground. The regulator's ON/OFF pin (pin 5) is connected to ground. The GND pin (pin 3) is also connected to ground. The output of the regulator (pin 4, FB) is connected to a 5V output terminal. A 33uH inductor (L1) is connected between the output and the output filter capacitor (C15, 680uF), which is connected to ground. A diode (D8, 1N5822) is connected in parallel with the inductor, with its cathode to the output and its anode to ground. A note indicates to verify the diode (1N5824) and the ground connection (GNDhuella).



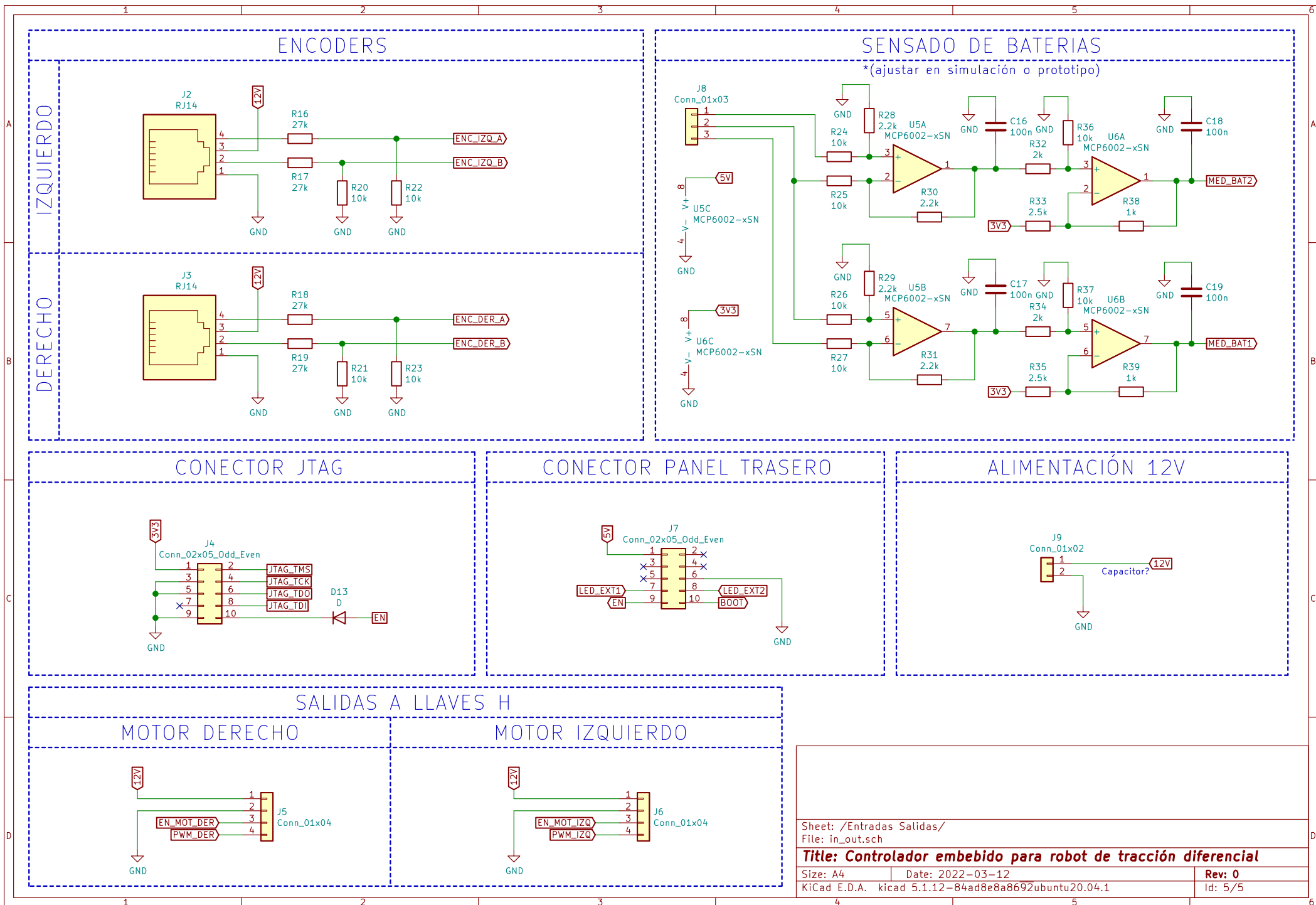
REGULADOR 3.3V

The diagram shows a 3.3V voltage regulator circuit. The input voltage is 5V, connected to the input pin (VI) of the AMS1117-3.3 regulator. The output voltage is 3.3V, connected to the output pin (VO). The ground pin (GND) is connected to ground. A 22uF capacitor (C13) is connected between the output and ground to filter the output voltage.



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