Componentes Utilizados HRC TP4



G2: Valentin Rivas, Lucio Fraccaro y Bautista Guzman

Integrantes



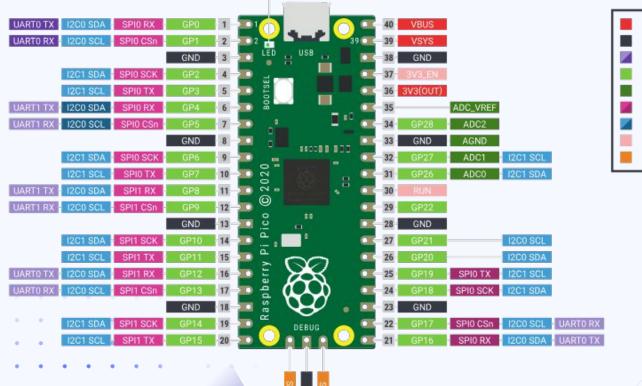




Componentes:

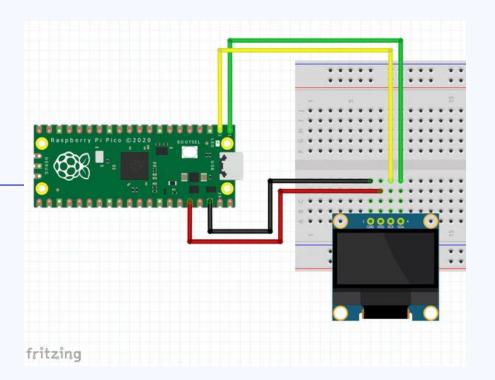
Raspberry Pi Pico	Controla los dispositivos y procesa la información	
Sensor temperatura DHT22	Mide temperatura y humedad	
Display I2C	Muestra los datos que el usuario desee	(
Regulador voltaje 12V a 5V LM7805	Convierte los 12V de entrada a 5V para alimentar Raspberry	
Relés con transistores	Permite controlar cargas externas como lámparas o motores	
<u>Pulsadores</u>	Sirve para interactuar con el sistema	/

Datasheet Raspberry



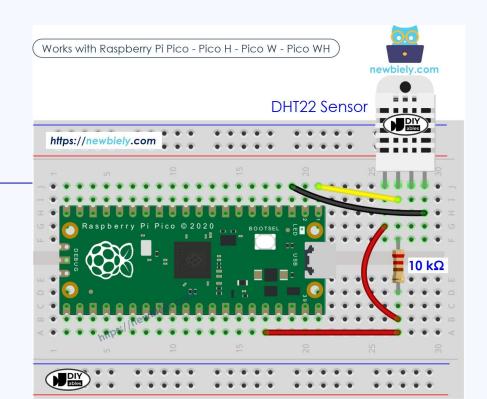


Pantalla OLED

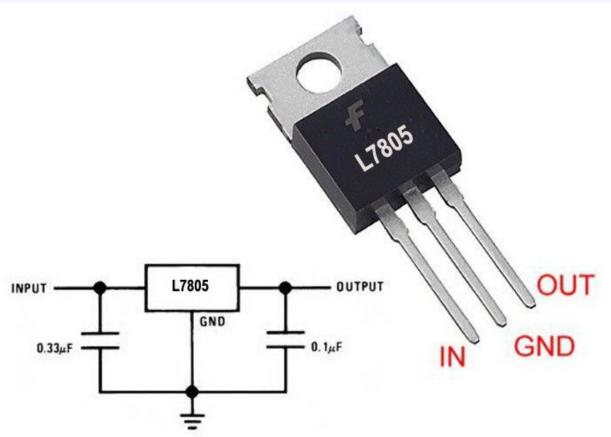




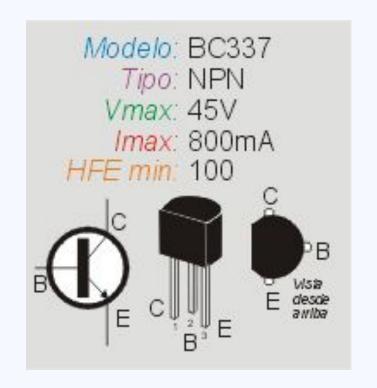
Sensor temperatura DHT22



Regulador LM7805

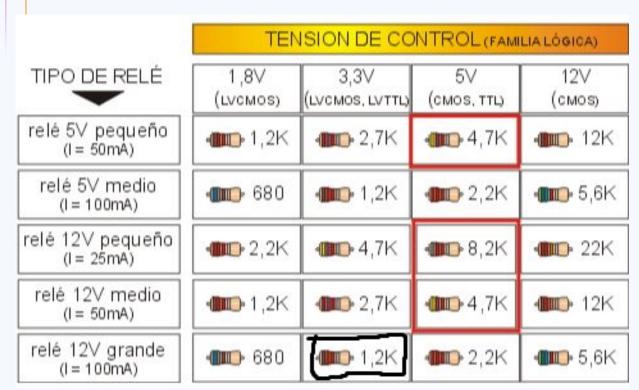


Transistor para relé





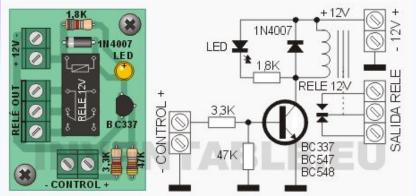
Resistencia para Relé

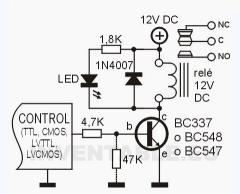


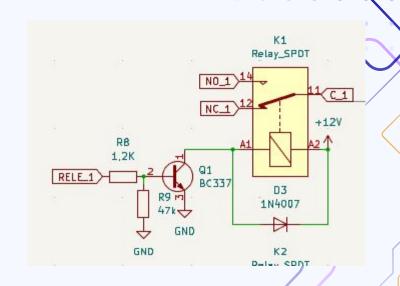
La subrayada es la que vamos a usar.

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Resistencia para Relé

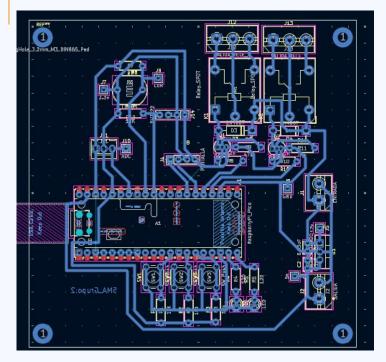




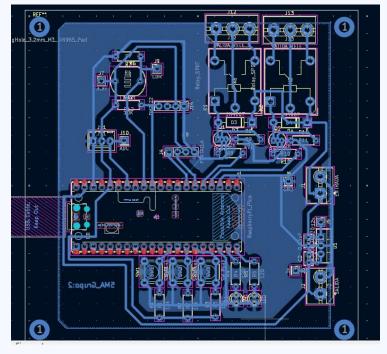


La resistencia a masa evita que el relé se active solo al encender el microcontrolador. Usa 47K o 100K.

PCB





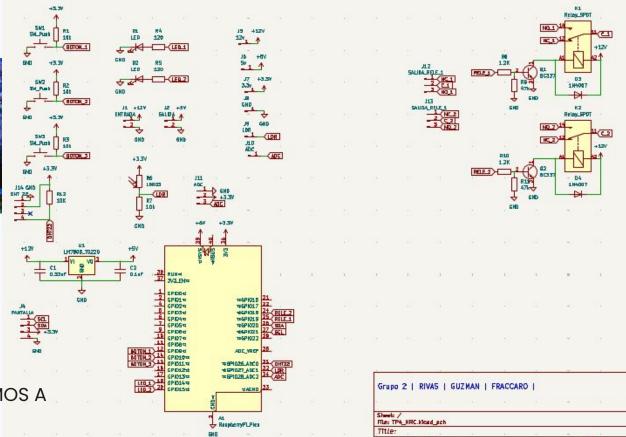


SIN POLIGONOS

CON POLIGONOS

Esquematicos:

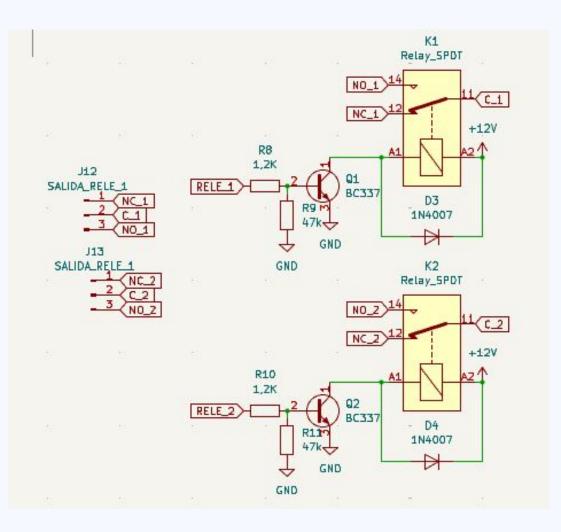




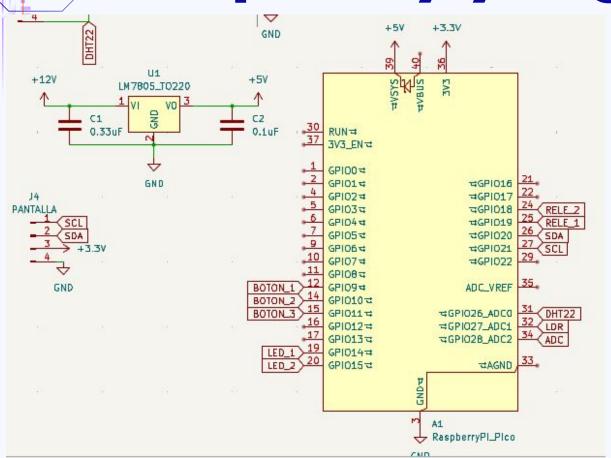
A CONTINUACIÓN VAMOS A VER UNO POR UNO:

Relé:





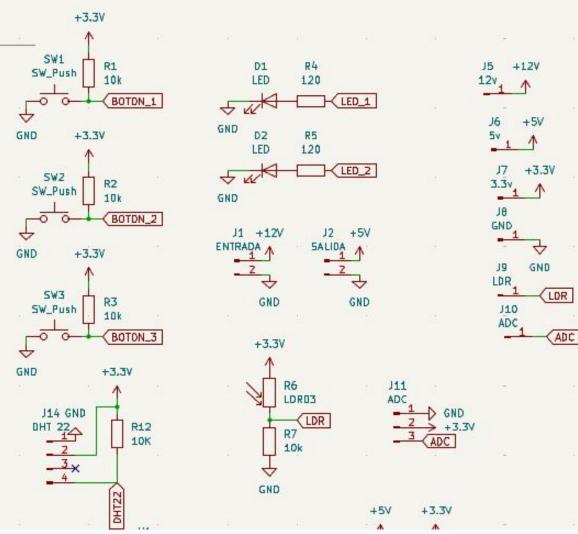
Raspberry y regulador:





Otros:







Gracias!

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