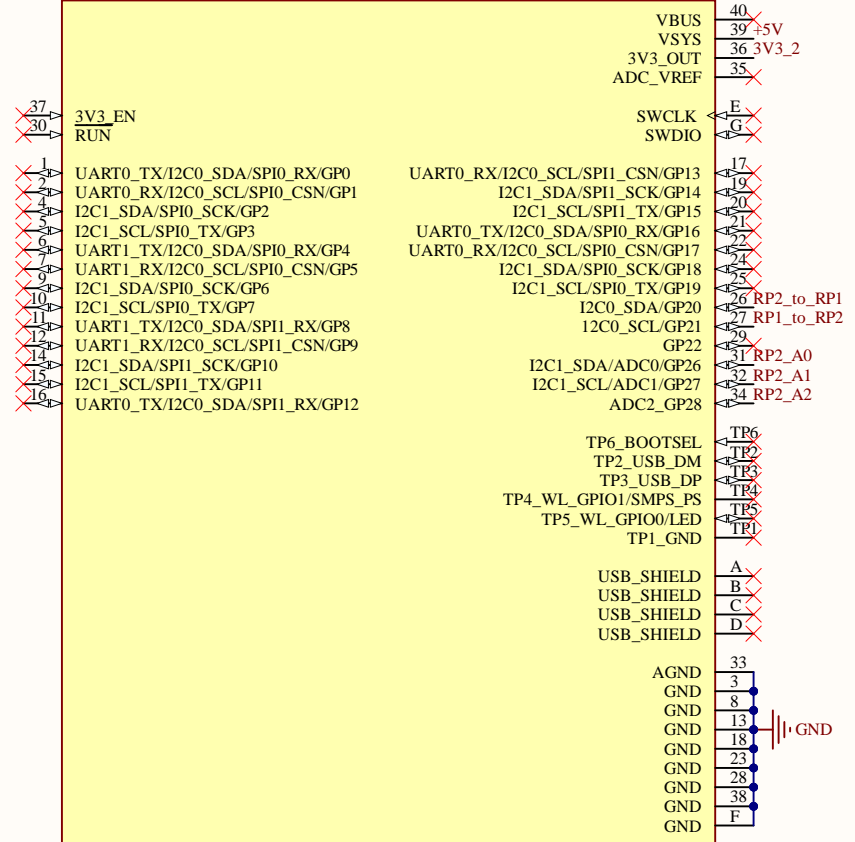
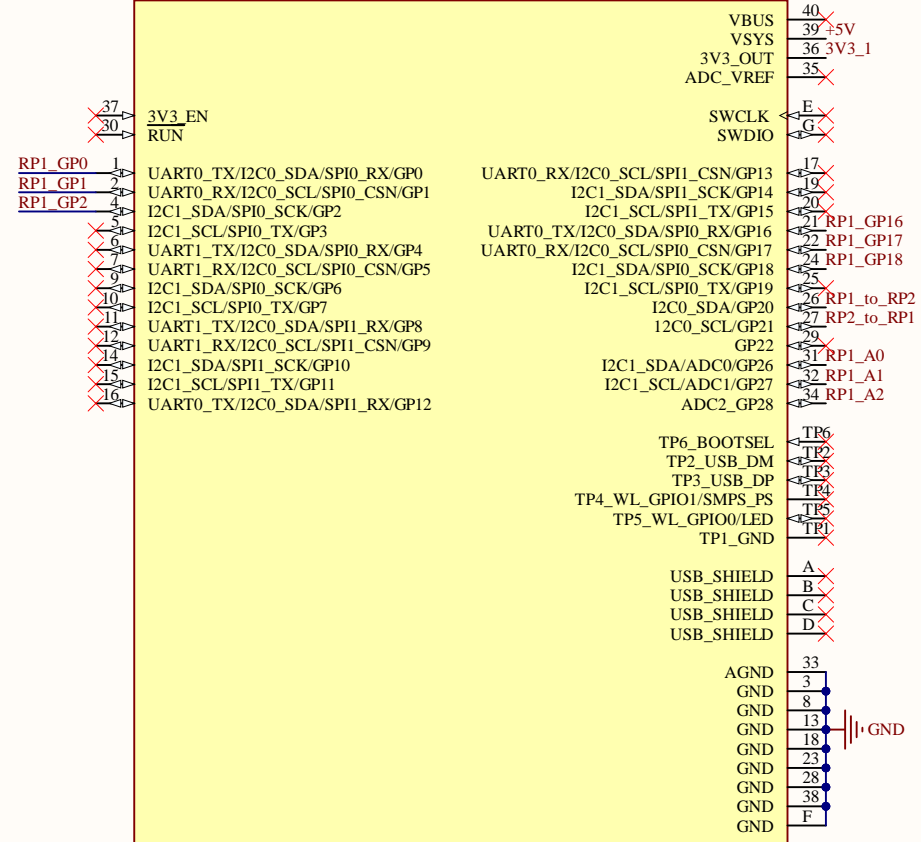


Title		
ESC204 Fridge - Power		
Size	Number	Revision
A4		1
Date:	3-30-2026	Sheet of
File:	C:\Users\...\Power.SchDoc	Drawn By: Yang Yang Zhang



U1

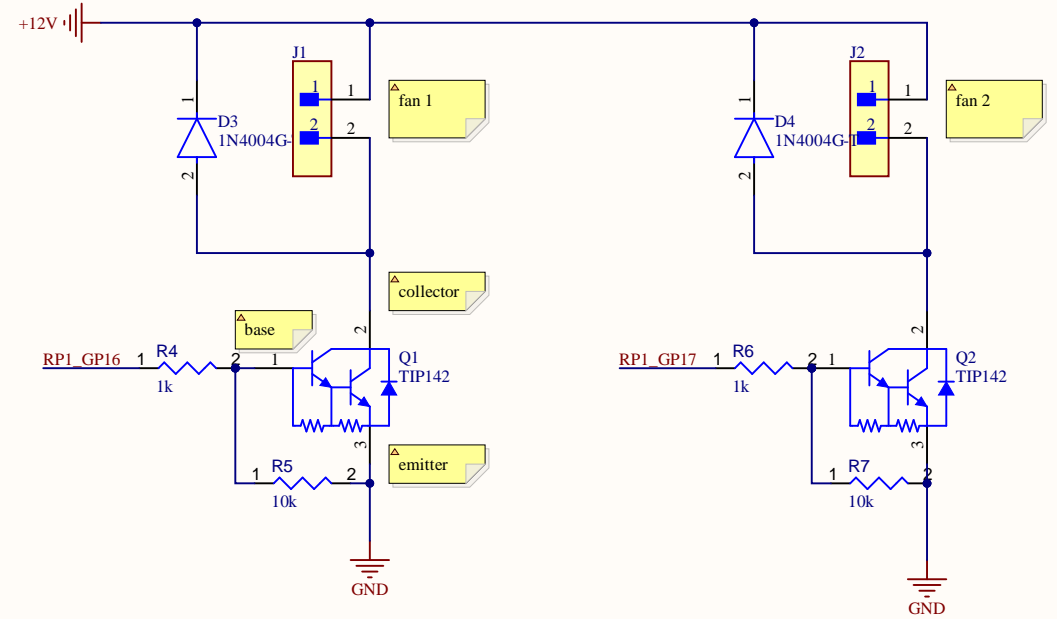
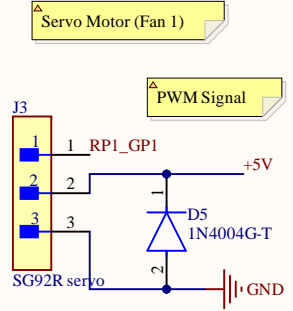
U2



RASPBerry_PI_PICO_W

RASPBerry_PI_PICO_W

Title		
ESC204 Fridge - Microcontrollers		
Size	Number	Revision
A4		3
Date:	3-30-2026	Sheet of
File:	C:\Users\...\Microcontrollers.SchDoc	Drawn By: Yang Yang Zhang

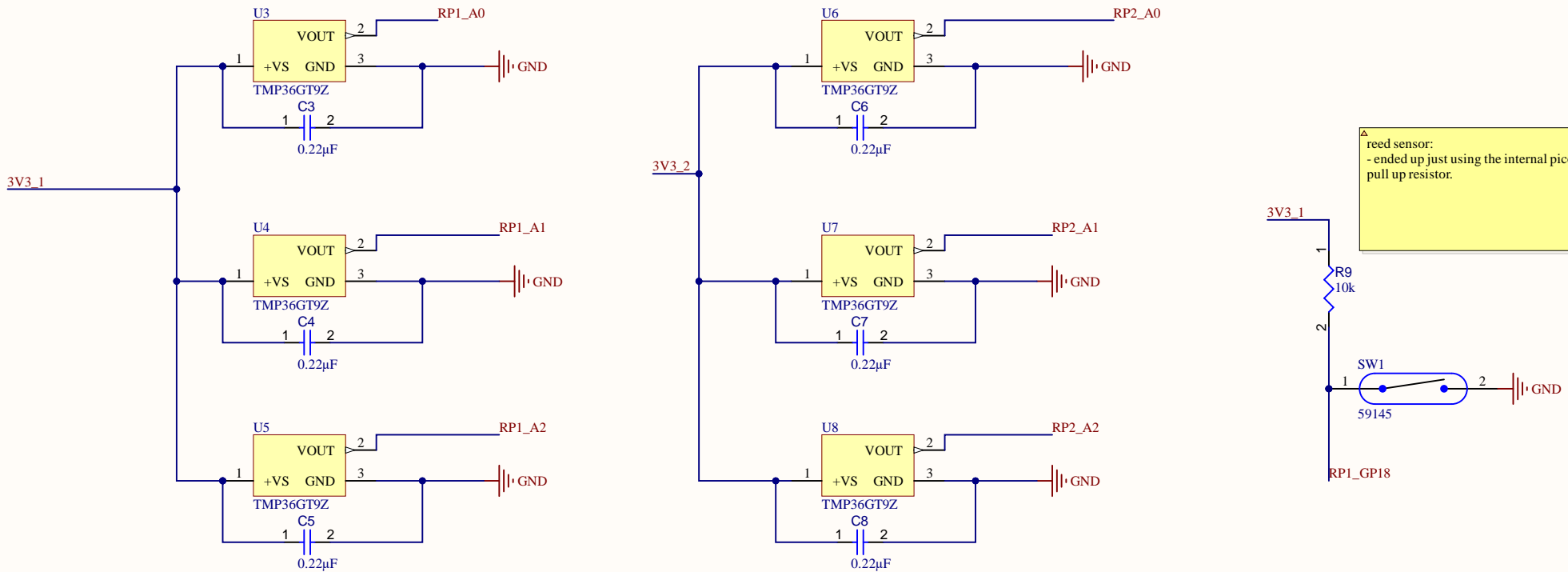


Title		
ESC204 Fridge - Fans & Motors		
Size	Number	Revision
A4		1
Date:	3-30-2026	Sheet of
File:	C:\Users\...\Fans_Motor.SchDoc	Drawn By: Yang Yang Zhang

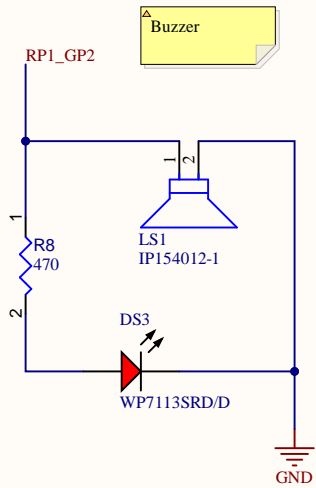
temperature sensors

We ended up not using any capacitors because they would be physically too far away from the temperatures to have much of an effect.

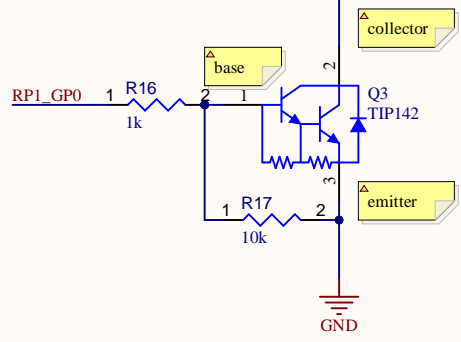
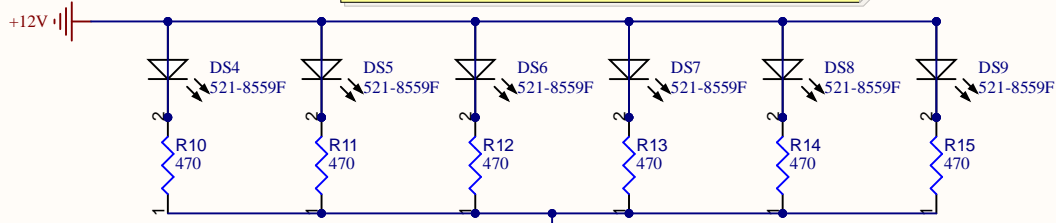
reed sensor:
- ended up just using the internal pico pull up resistor.



Title		
ESC204 Fridge - Sensors		
Size	Number	Revision
A4		2
Date:	3-30-2026	Sheet of
File:	C:\Users\...\Sensors.SchDoc	Drawn By: Yang Yang Zhang



these are actually 4 pin RGB LEDs that I'm using only as white LEDs. they have 3 anodes



Note: won't use the LCD display because it's more difficult to wire than coding a web app that displays the temperature and controls the software

Title		
ESC204 Fridge - UI		
Size	Number	Revision
A4		2
Date:	3-30-2026	Sheet of
File:	C:\Users\...\UI.SchDoc	Drawn By: Yang Yang Zhang

Board Stack Report