

[illegible]

The diagram illustrates the wiring for a custom PCB connected to a Raspberry Pi 4. The PCB components and their connections are as follows:

- Filament Sensor / Hall Sensor:** Connected to the I2C bus (SCL to GPIO4, SDA to GPIO5).
- Probe/Klicky:** Connected to the I2C bus (SCL to GPIO4, SDA to GPIO5).
- Umbilical MOD X Endstop OR External Chamber Thermistor:** Connected to the I2C bus (SCL to GPIO4, SDA to GPIO5).
- E-Stepper (on the back):** Connected to the I2C bus (SCL to GPIO4, SDA to GPIO5).
- Part cooling Fan:** Connected to 24V (orange), GND (black), and a control pin (purple).
- Hotend Fan:** Connected to 24V (orange), GND (black), and a control pin (purple).
- Neopixels:** Connected to 5V (red), GND (black), and a data pin (green).
- Thermistor:** Connected to 5V (red), GND (black), and a signal pin (yellow).
- Heater:** Connected to 24V (orange), GND (black), and a control pin (purple).
- GROUND (Connect to GND of PSU LRS-200-24):** Connected to the black ground wire.

The Raspberry Pi 4 connections are as follows:

- I2C Bus:** SCL to GPIO4, SDA to GPIO5.
- GPIO Pins:**
  - GPIO4 (SCL): Connected to the Filament Sensor, Probe/Klicky, Umbilical MOD X Endstop, and E-Stepper.
  - GPIO5 (SDA): Connected to the Filament Sensor, Probe/Klicky, Umbilical MOD X Endstop, and E-Stepper.
  - GPIO13 (Purple): Connected to the Part cooling Fan and Hotend Fan control lines.
  - GPIO14 (Green): Connected to the Neopixels data line.
  - GPIO15 (Yellow): Connected to the Thermistor signal line.
  - GPIO16 (Purple): Connected to the Heater control line.
- Power:** 5V (red) and 24V (orange) are connected to the respective pins.

Updated 13 November 2024 08:47:15 by Datt Flo