SPIN TUBE MACHINE (GUI):

**Final Documentation :**

BLOCK DIAGRAM /CIRCUIT ANALYSIS:

horizontal line

# Placeholder image

# REQUIREMENTS:-

**HARDWARE:-**

1)AC.MOTOR

2)VFD

3)RASPBERRY PI 3B

4)IR SENSOR

5)DAC (MCP4725)

6) AMPLIFIER OF GAIN (3)

7) TEMPERATURE SENSOR (DS18B20)- [-55 TO +125 CELCIUS]

8) JUMPER WIRES & CONNECTNG WIRES

**SOFTWARE:-**

1. **PYTHON**
2. **TKINTER(GUI)**

**MODULES IMPORTED(REQUIREMENTS):-**

* **import tkinter as tk**
* **from tkinter import \***
* **from tkinter import messagebox**
* **#import Adafruit\_ADS1x15**
* **#from time import sleep**
* **import time**
* **import RPi.GPIO as GPIO**
* **import smbus**
* **import Adafruit\_MCP4725**
* **from w1thermsensor import W1ThermSensor**

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