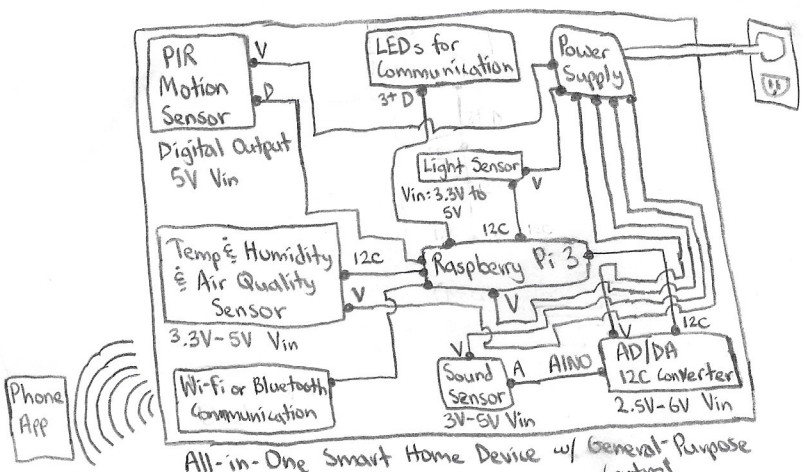
D = Digital Communication
A = Analog Communication
V = Voltage In



All-in-One Smart Home Device w/ General-Purpose Control

- General Purpose Control to be decided in time

LEDs for Communication: Meant for indications, such as air quality being fine or there being an intruder - LED color for indication
Digital GPIO

Temperature/ Humidity/ Air Quality Sensor: Adafruit BME680 that handles temp, humidity, & air qual
Humidity ± 3% Accuracy; Metal Oxide (MOX) sensor changes
Temp ± 1.0°C Accuracy; resistance based on Volatile Compoun
Barometric Pressure ± 1 hPa Accuracy; (VOC) in the air.
Can give you air quality but not differentiate gasses or al
3.3V to 5V Voltage In - 12C

Light Sensor: Adafruit TSL2561 - Can detect light ranges from 0.1 to 40,000+ l
Contains both infrared and full spectrum diodes
3.3V to 5V Voltage In — 12C

Sound Sensor Module: Uses an LM358 IC; Recieves sound waves and converts them into an electrical signal
Needs to be connected to an AD/DA 12C converter (PCF8591) - 2.5V to 6 Voltage I - 12C
Can act as a microphone; 3V to 5V Voltage In

PIR Motion Sensor: 5V Voltage In, Digital Out
Sensitive up to 22 feet
Should be far away from Raspberry Pi 3

Power Supply: Logis 480W 20+4-pin ATX Power Supply
Connections for 3.3V & 5V
Meant to power Raspberry Pi 3 & sensors

Wi-fi or Bluetooth Communication: Communication btwn Raspberry Pi 3 & phone application
Via the world wide web or phone app