UML class diagrams

Read more about structuring UML class diagrams here. And for additional help, watch this tutorial about basic UML class diagrams.

Lucidchart basics

Summarize

Customize

Comment

Record video

TemperatureSensor

- sensor_pin: int

+ __init__(sensor_pin: int)
+ read_temperature(): float

TemperatureController

- temp_sensor: TemperatureSensor
- fan: Fan
- threshold: float (default 25.0)

+ __init__(temp_sensor: TemperatureSensor, fan: Fan, threshold: float = 25.0) |
+ set_threshold(threshold: float)
+ control_fan()

Monitors temperature

Fan

- fan_pin: int

+ __init__(fan_pin: int)
+ turn_on()
+ turn_off()
+ set_speed(speed: int)

controls fan

Drives

Motor

+ attribute1:type = defaultValue
+ attribute2:type
- attribute3:type

+ operation1(params):returnType
- operation2(params)
- operation3()

Display

+show_temperature(temp:float)
+show_status(status:str)

Displays temperature data

LCDDisplay

- i2c_address: int (default 0x27)
- rows: int (default 2)
- columns: int (default 16)

+ __init__(i2c_address: int = 0x27, rows: int = 2, columns: int = 16)
+ clear() |
+ write_text(text: str, row: int = 0, col: int = 0) |