Design of the UV Exposure Box

Text, whiteboard

Description automatically generated

The major components, from left to right:

1. LED Control Layer. Proposed name: **UVEB\_LEDControl**. This will entail turning on/off. If I can put in current sensing, it will include that as well.
2. UV Light Sensing Layer, **UVEB\_UVStats**. Measurement of light data captured.
3. UI Control. **UVEB\_UIControl**. There will be some LED status, but principal UI will be HTTP over WiFi. UI will encompass Alarms, Status, Start/Stop commands.
4. Fan Control handling. **UVEB\_FanControl**. Fan on/off. May use PWM to handle fan speed.
5. Temperature Sensing Layer. **UVEB\_TempStatus**. Discovery of 1-wire temp sensors, reading temp data.
6. System Diag handling. **UVEB\_SystemStats**. Aggregate data collection, for use by alarms and events.