

1.1 Requirements & Constraints

Functional requirements:

1. The device must be able to collect I-V, which is the reflected light from the device under testing (DUT).
2. The device can shine LEDs with different wavelengths desired by the user from the top and bottom of the DUT.
3. The device could provide a different testing environment for DUT by changing the type of air in between sensors and the DUT.

Resource requirements:

1. PCBs
2. Servos
3. Probes for the DUT
4. Box that can hold a vacuum and block out light.
5. Gas regulators/valves & tanks

UI requirements:

1. Provide tables of processed data
2. Easy to navigate
3. Gives option to view raw data

1.2 Engineering Standards

No formal engineering standards are likely to apply to our project