

### **Meeting 3:**

**Date:** 10/19/22

### **Recorded by:**

- Thomas McCoy

### **Attendance:**

- Thomas McCoy, Garth Anderson, Malvin Lim, Matthew Rief, Moneim Ismail

### **Business Discussed:**

- Discussed servo pick
  - Find something simpler and cheaper
- Discussed LED PCB design
  - LED connections
  - LEDs need to pulse
  - Also photodetector(PD) on PCB
  - Sits on servo
  - top servo attaches to wall other can sit on bottom
  - top PCBs LEDs/photodetector on bottom of PCB bottom PCB LEDS/PD mounted top
  - Device Under Testing(DUT) stage will have a hole that light can shine through
  - Another option is to flip top servo and have duplicate PCB
- Overview for components that were compared to purchasable version on Ossila.
  - Source meter (SMU) for measuring voltage
  - LED measurement system.
  - Solor Cell I-V test system.
- Misc.
  - Think about power requirement for circuit
  - Do when need voltage regulation
- Gas Regulation
  - +15V, -15V, +5V
  - Ideally automated.
  - Showed Gas Regulator device.
  - Need to send signal to display
  - Need to measure Voltage signal to/from.
- Finish designs and planning before the end of semester.

### **Planned Work:**

- Thomas
  - Minutes, website design, reporting.
  - Get LabView installed
  - LabView programming 2400s SMU keithley - measuring I-V
- Matthew
  - CAD design
  - New servo
  - For CAD focus on DUT stage and support
- Malvin

- Gas Regulators
- New servo
- Gas regulation
- Garth
  - LED PCB Design
  - New servo
  - Microcontroller
- Moneim
  - Will send word document

**Next Meeting:**

- 11/2/22 virtual meeting via email - what was worked on, feedback etc.