

DSG-EIC DIRC Meeting

Date: June 12, 2023

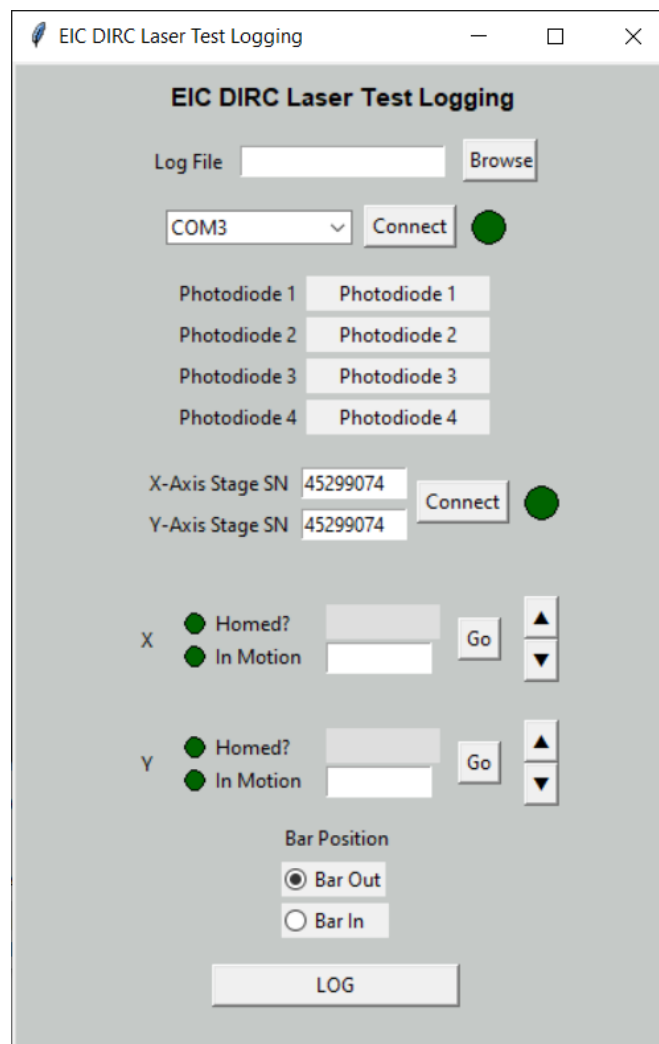
Time: 2:00 PM – 2:30 PM

Attendees: Aaron Brown, Imani Burton, Pablo Campero, George Jacobs, Greg Kalicy, Tyler Lemon, and Marc McMullen

1. Developing remote user interface for reading ADCs and controlling stages in laser test station

Tyler Lemon

1. Python program uses the *Tkinter* package to create a user interface for connecting to and reading from the DAQ device, setting up a log file, logging data to that file, and control and readback of linear stages
 - Completed DAQ readout and data logging features
 - Linear stage control and readback in progress
 - Placed controls and indicators on screen; back-end programming in progress

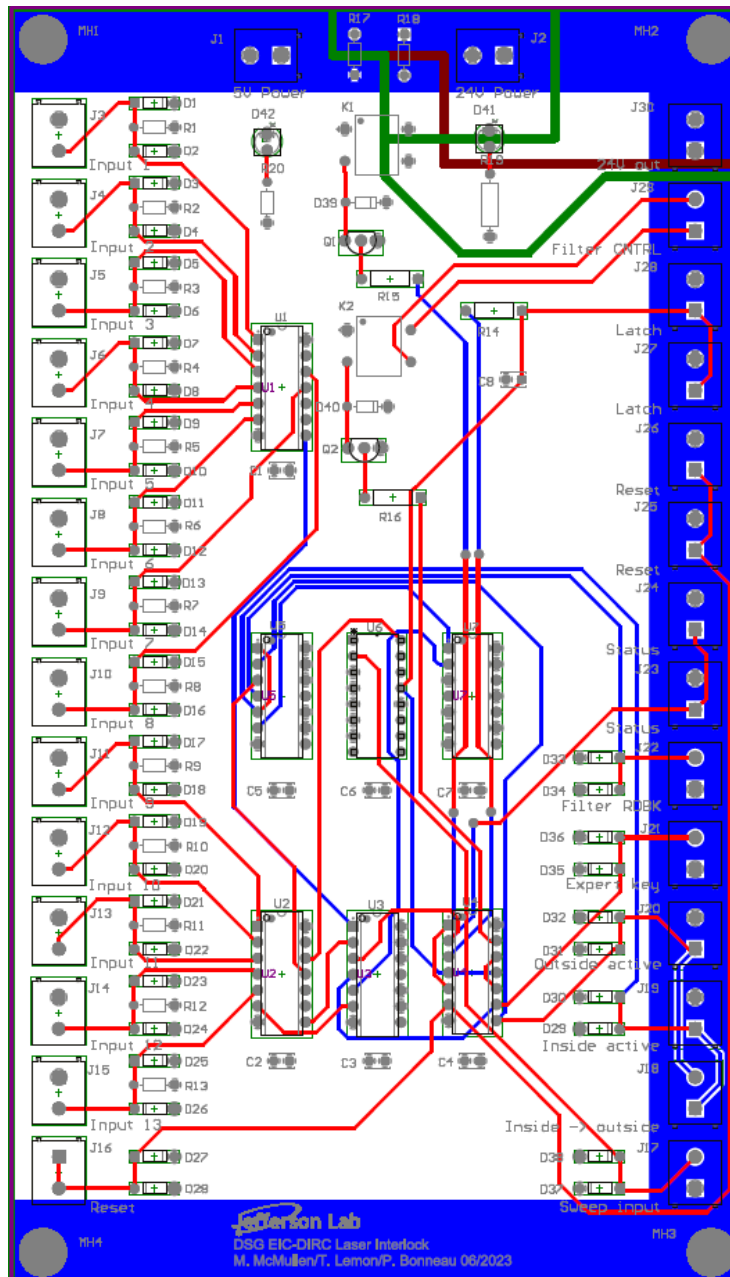


Screenshot of remote user interface created by a Python script using its Tcl/Tk library *Tkinter*.

2. Review underway of laser interlock circuit's PCB design

Tyler Lemon and Marc McMullen

1. Through-hole components used for ease of fabrication
2. PCB has four layers
 - Top signal routing layer
 - 5 V power
 - 5 V ground
 - Bottom signal routing layer



Screenshot of Altium PCB design. Board is ~8" x 5". Inputs are on the left side, outputs on the right; IC footprints in the middle are logic gates.

3. Earliest arrival time of components estimated to be late September, 2023

Greg Kalicy

1. Discussions on detector component preparation and shipping are on-going
 - After arrangements are completed with SLAC, it will take three months for components to be delivered

4. Greg Kalicy and Tyler Lemon will meet the week of June 12, 2023 to review the design for 3D printing clamps that will hold quartz bars during tests