DSG-EIC DIRC Meeting

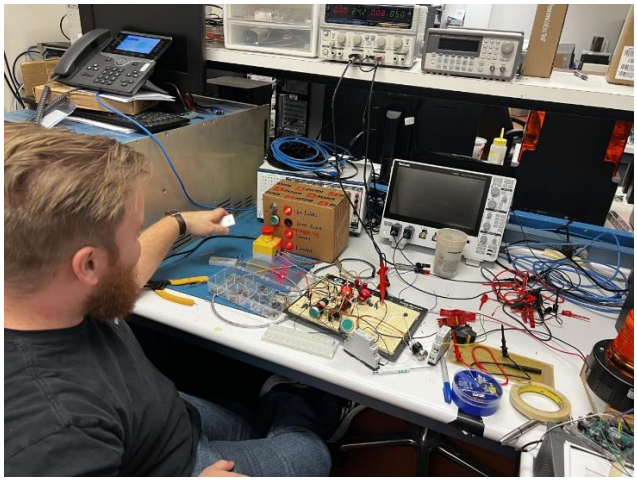
Date: December 12, 2022
Time: 11:00 AM – 12:00 PM

Attendees: Peter Bonneau, Aaron Brown, Imani Burton, George Jacobs, Greg Kalicy, Tyler Lemon, Marc McMullen, and Jennifer Williams

1. **Latest draft of safety documentation distributed; please review and respond with questions or comments**

2. **Laser safety glasses calculation verified**
   Tyler Lemon
   1. Laser Task Hazard Analysis states that a minimum optical density (OD) of 2.0 is needed for laser safety glasses
   2. Calculation by hand verifies this result

3. **Laser interlock system**
   Tyler Lemon
   1. Prototype circuit developed on breadboard
   2. Features of prototype interlock system include the following:
      - Capability to monitor up to 14 normally-closed inputs
      - Relay output with delay timer for enabling laser
      - Relay output of 24 VDC power for door magnetic lock and signal beacon
      - Sweep button
        - Button will be inside laser area, requiring user to enter area before resetting interlocks, therefore requiring a sweep of the laser area to ensure its appropriate occupancy
        - Pushing sweep button starts a user-settable timer
        - To enable laser, user must reset interlocks before timer expires; if timer expires, sweep button must be pressed again
      - Interior and exterior control units with keyed enable switches and LED status indication



Tyler Lemon testing prototype laser interlock system in EEL 231.