

# Detector Support Group

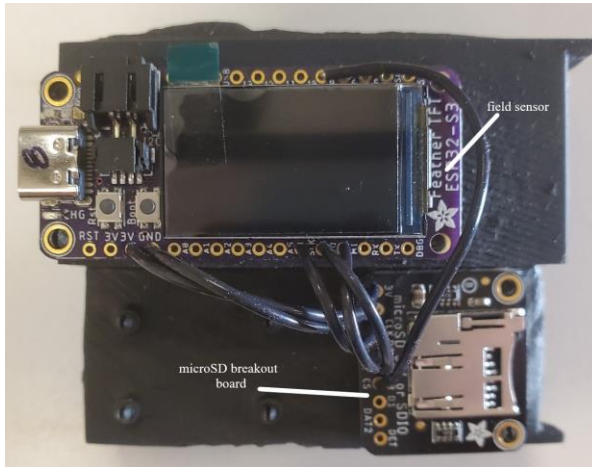
*We choose to do these things "not because they are easy, but because they are hard".*

**Weekly Report, 2022-11-16**

## **Hall A – CLEO Magnet**

*Aaron Brown, Brian Eng, Marc McMullen, Mindy Leffel*

- Ordering plastic enclosures with clear tops as 3D printing case is taking up too much time due to failed prints
- Computer Center manually added MAC addresses, so now able to join guest network and sync with JLab time server
- Wired field sensor to microSD breakout board



## **Hall A – ECAL**

*Marc McMullen*

- Installed software drivers on laptop for the Omega heater controller
- Started updating LabVIEW software on lab computers

## **Hall A – GEM**

*Marc McMullen*

- Troubleshoot and replaced channel 3 of the BigBite gas distribution system; [DSGLog link](#)
- Assembled portable Raspberry Pi touchscreen monitor

## **Hall A – Møller**

*Brian Eng, Mary Ann Antonioli*

- Reviewed nine piping and instrumentation diagrams for sensor types and names; made spreadsheet of sensors

## **Hall A – SoLID**

*Mary Ann Antonioli, Pablo Campero, Mindy Leffel*

- Completed pinout for voltage taps cable
- Researched specifications for power supply cable that will monitor its signals in the PLC; completed connector pinout
- Contacted support from EECO vendor to review incorrect KepServer Enterprise software sold, instead of KepServerEX; no response received yet



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## **Hall B – Solenoid**

*Brian Eng*

- Assisted with MPS failure; <https://logbooks.jlab.org/entry/4081159>

## **Hall C – NPS**

*Mary Ann Antonoli, Peter Bonneau, Aaron Brown, Brian Eng, Tyler Lemon, Marc McMullen*

- Wrote manual for four high voltage Phoebus screens; posted manuals to NPS Controls wiki page
- Started connector pinout for humidity sensor cables
- Debugging averaging of sensor data, time over threshold, and alarms in the LabVIEW code
- Re-tested 15 Phoebus screens (NPS testing versions); documented issues found
  - ★ Low limits do not trigger the out-of-limit indicator in Phoebus screens; debugging in progress
- Developing test IOC on DSG development PC for MPOD low voltage communication to EPICS
- Submitted a service request ticket to National Instruments to address issue that the National Instruments server implementation to directly support alarm fields, as done in an EPICS softIOC, doesn't currently work on a cRIO
- Procured contacts for RTD extension cables

## **Hall D – JEF**

*Mindy Leffel*

- Wrapped 20 Crytur crystals with 3M foil and Tedlar

## **EIC**

*Pablo Campero, Brian Eng, George Jacobs, Marc McMullen*

- Installed with epoxy four, ½” gas line adapters into 3.5” pipe
- Received orifice and relief valve from the design authority and procured fittings to install these items to the pressure system gas line

## **EIC - DIRC**

*Tyler Lemon*

- Submitted PR for laser interlock system hardware, interlock system circuit development, low power filter, and DAQ system development