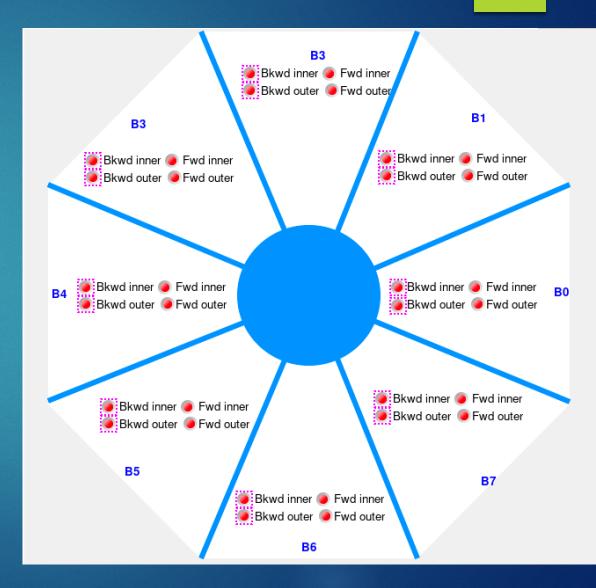
ISU KLM Meeting

SEPTEMBER 27

NOAH

GUI update

- Detector-like layout for homepage of GUI
- Click on locations to open the panel with more LEDs
- Each location in the picture on the right (B3 Bkwd inner, B0 Fwd outer, etc.) corresponds to two of the Pi's SPI lanes
 - ► I thought it might have been too clustered to include 8 LEDs and labels per sector



Pi naming and location scheme

- Proposal: a json file contains location information/instructions
 - The PV names broadcasted are dependent on the contents of the json file
 - PV names look like "KLM:Bubbler:Sector3:Backward:Outer:Return:Channel22:FlowRate"
 - ▶ In this way, pi locations and PV names can only be changed when a new version of the json file is downloaded from gitlab
 - Or changed locally on the pi (maybe there is a way to disallow this)
 - Bash script with chmod or something
 - json file examples on next slide

json files for pi naming and location

```
"klmpi2" : {
             "Sector" : 3,
             "Direction" : "Backward"
             },
          "klmpi4" : {
             "Sector" : 4,
             "Direction" : "Backward"
   9
  10
          "ax16wc36py7.physics.iastate.edu" : {
             "Sector" : 3,
  11
  12
             "Direction": "Backward"
  13
  14
```

```
master_json.json [ 1.86 KiB
         "klmpi2": {
             "spi0": {
                 "Sector": 3,
                 "Direction": "Backward",
                 "Side": "Outer",
                 "Source": "Supply"
             },
             "spi1": {
10
                 "Sector": 3,
                 "Direction": "Backward",
11
12
                 "Side": "Outer",
13
                 "Source": "Return"
14
             },
15
             "spi3": {
16
                 "Sector": 3,
17
                 "Direction": "Backward",
                 "Side": "Inner",
18
                 "Source": "Supply"
19
20
             },
             "spi4": {
                 "Sector": 3,
                 "Direction": "Backward",
                 "Side": "Inner",
24
                 "Source": "Return"
26
```