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Turning On:

1. Ensure files are in order
2. Ensure the acquisition plunger is all the way down
3. Turn on the pis
4. Remove the cap from the pH sensor
5. Manually move pH sensor to full up
6. Place the base and wells into position
   1. Pushed all the way back against the corner farthest from the buttons
7. Calibrate pH sensor up/down using manual.py
   1. Ensure correct environment
8. Fill the acid, base, and clean wells and place them into position
9. Place pH standards in the correct wells
   1. Calibration is done within the code (check the code has the correct wells for the standards)
   2. A close-up of a lab

      Description automatically generated
10. Ensure the pH sensor is full up before running
11. Files Needed:
    1. core.py
    2. utils.py
    3. config.yaml
       1. contains calibrations for stage (acid, base, clean, blot), volume, device offset, pH device, syringe z, stage x offset, stage y offset
    4. cellmap.txt
       1. contains calibrations for the wells
    5. manual.py (for calibration)
12. Environment:
    1. Legolas\_2024
       1. In anaconda prompt: “conda activate Legolas\_2024”
13. Most recent full run file:
    1. LEGOLASGP.py
    2. LegolasDemo.ipynb
       1. Remember to set kernel in jupyter notebooks
       2. Legolas\_2024-kernel
       3. A screenshot of a computer

          Description automatically generatedA screenshot of a computer

          Description automatically generated
14. IP addresses:
    1. 192.168.1.11 (horizontal)
    2. 192.168.1.14 (vertical)
15. Username:
    1. greenleaf
16. Password:
    1. raspberry

Turning off

1. Ensure the plunger is fully down
2. Remove the base
3. Place the cap on the pH sensor
   1. Make sure there is 3.3M KCL with the pH sensor tip fully submerged
4. Turn off the pis