Automated Microbial Analysis Weekly Meeting Notes

2/27/2020

* Group Members in Attendance
  + Bendt, Zachary
  + Bruslind, Jorian
  + Hall, Macklin
* Project Unknowns and Risks
  + Increased disruption of the Chinese PCB industry due to delays caused by CoronaVirus.
  + What should the enclosure look like? How should it be laid out?
  + PCB for the optical sensors?
* Tasks from This Week
  + Zach
    - GUI integration into system (2 hr)
    - GUI and Controls integration (4 hrs)
  + Jorian
    - PCB assembly and testing (3hrs)
    - New mechanical assembly (4hrs)
  + Mack
    - PCB assembly and testing (4.5 hrs)
    - Troubleshooting TMC2209 (1 hr)
* Group Meeting Topics
  + Troubleshooting TMC2209 stepper driver issues
  + Block and interface revisions
  + Strategies to eliminate physical limit switches
  + Intra-system communication techniques
* New Items
  + UART communication with TMC2209 established
  + Primary Control PCB under testing
  + Auxiliary Driver PCB under testing
* Tasks for Next Week
  + Zach
    - Test setup build (2 hrs)
    - Build Controls Matrices (2 hrs)
  + Jorian
    - Assist in the PCB development/troubleshooting (4hrs)
    - Finish 3D printing and assembling mechanical design (3hrs)
  + Mack
    - Track down source of TMS2209 problems (2 hrs)
    - Fully assemble and test more PCBs (3 hrs)
  + Everyone
    - Do good; don’t do bad.
* Hours This Week

|  |  |  |  |
| --- | --- | --- | --- |
|  | Total Hours | Hours w/ Team | Hours Helping |
| Bendt, Zachary | 6 | 3 | 3 |
| Bruslind, Jorian | 7 | 5 | 5 |
| Hall, Macklin | 5.5 | 4.5 | 4.5 |