Automated Microbial Analysis Weekly Meeting Notes

2/20/2020

* 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
    - All Block Checkoff preparation (2 hrs)
    - All Block Checkoff (1hr)
    - GUI integration into system (1 hr)
    - Controls integration and testing (3hrs)
  + Jorian
    - All Block Checkoff preparation (2hrs)
    - Design optimized delta arms (2hrs)
    - Print new parts for updated assembly (3hrs)
  + Mack
    - Troubleshot new stepper driver implementation (1 hr)
    - Stepper driver signal verification (30 min)
    - Picked up materials for enclosure (2 hrs)
* Group Meeting Topics
  + Primary Control PCB connector choice
  + Block and interface revisions
  + Strategies to eliminate physical limit switches
  + Intra-system communication techniques
* New Items
  + Primary Control PCB design finalized and ordered
  + System can now successfully complete a homing sequence
  + Physical limit switches will no longer be utilized
* Tasks for Next Week
  + Zach
    - GUI and Controls integration (4 hrs)
    - Test setup build (2 hrs)
    - Build Controls Matrices (2 hrs)
  + Jorian
    - Assemble new frame design (5hrs)
    - Test new mounting joints for aluminum extrusion (1hr)
    - Design better mounting points for PCBs/Power supply (1hr)
    - Laser cut acrylic sheets (2hrs)
  + Mack
    - Assemble and test central PCB (2 hrs)
    - Assemble and test auxiliary PCBs (2.5 hrs)
  + Everyone
    - Do good; don’t do bad.
* Hours This Week

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| --- | --- | --- | --- |
|  | Total Hours | Hours w/ Team | Hours Helping |
| Bendt, Zachary | 5 | 2 | 2 |
| Bruslind, Jorian | 7 | 2 | 2 |
| Hall, Macklin | 3.5 | 1.5 | 1.5 |