Automated Microbial Analysis Weekly Meeting Notes

2/6/2020

* 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 Development (1 hr)
    - Controls coding (3 hrs)
    - RIR editing (1 hr)
    - Block Changes (1 hr)
  + Jorian
    - Designed new frame for delta mechanism (4hrs)
    - Calculated new BOM cost (.5hrs)
    - Helped with main PCB layout (3hrs)
  + Mack
    - Finalized Primary Control PCB design (4 hrs)
    - Researching Arduino Nano compatibility with grbl (1 hr)
    - Polishing system homing sequence (1 hr)
* 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
  + System block diagram now has many consolidate blocka instead of many small blocks
* Tasks for Next Week
  + Zach
    - GUI Development (2 hrs)
    - Block Validations (5 hrs)
    - Block check off filming (2 hrs)
  + Jorian
    - Order new 80/20 materials (1hr)
    - Create acrylic mounting pattern (2hrs)
    - Buy acrylic sheets (.5hrs)
    - Assemble updated design (3hrs)
  + Mack
    - Further polish grbl implementation (1.5 hrs)
    - Test RPi and Arduino communication strategy (30 min)
  + Everyone
    - Do good; don’t do bad.
* Hours This Week

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| --- | --- | --- | --- |
|  | Total Hours | Hours w/ Team | Hours Helping |
| Bendt, Zachary | 6 | 3 | 3 |
| Bruslind, Jorian | 7.5 | 4 | 4 |
| Hall, Macklin | 6 | 6 | 6 |