Automated Microbial Analysis Weekly Meeting Notes

01/16/2020

* Group Members in Attendance
  + Bendt, Zachary
  + Bruslind, Jorian
  + Hall, Macklin
* Project Unknowns and Risks
  + Do we want to use a different motor driver that has limiting built in?
  + Do we want to continue using GRBL or find another solution?
  + Should we use an additional arduino dedicated to handling the encoders?
  + PCB for the optical sensors?
* Tasks from This Week
  + Zach
    - Research edge detection for delta location error correction (3 hrs)
  + Jorian
    - Diagnosed serial problems with Attiny85 (4hrs)
    - Researched connector standards for implementation (2hrs)
    - Researched suction cups specifications (1hr)
    - Helped design PCB (1hr)
  + Mack
    - Design new PCB (5 hrs)
    - Test ATtiny (3 hrs)
* Group Meeting Topics
  + Updating Block diagram
  + PCB design
  + Stepper Driver selection
  + Meeting with Don to discuss changes of course expectations
  + Use of ATtiny in new PCB
* New Items
  + Documentation for the system has been updated and is now current
* Tasks for Next Week
  + Zach
    - Continue location error detection with OpenCV (4 hrs)
  + Jorian
    - Base of enclosure (2hrs)
    - End effector mount (3hrs)
  + Mack
    - Build/test new PCB revision design (2 hrs)
  + Everyone
    - Do good; don’t do bad.
* Hours This Week

|  |  |  |  |
| --- | --- | --- | --- |
|  | Total Hours | Hours w/ Team | Hours Helping |
| Bendt, Zachary | 3 | 1 | 1 |
| Bruslind, Jorian | 8 | 4 | 4 |
| Hall, Macklin | 9 | 4 | 4 |