

## 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

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