Subject: Automated Microbial Analysis Update

Date Sent: 05/21/2020

Hello Scott,

Despite the shutdown of society at large, we have made some good progress towards the overall design of the project. Although physical access to the system has only recently been regained, the time spent since then has not been idly wasted. We have partitioned the workload into Mechanical, Electrical and Computer Science sub groups to help with organization.

**Mechanical**

While working on the assembly we were able to discover some important elements of the ball joint rotation and its mechanical properties. Something that can be improved is the rigidity of the horizontal fastener mount from the upper arm to the lower arm. This improved rigidity solves the issues of an unbalanced end effector that we’ve been experiencing these past few weeks. Apart from that, we have been working to keep the mechanical models and drawings updated and published on the artifact repository webpage (Github).

**Electrical**

**Computer Science**

In the coming weeks we will continue to integrate our designs into the system, as well as update our repositories. All of the updates we have provided in this email, as well as any future updates can also be viewed on our GoogleSite. As always, we will all be available by email to answer any questions you might have.

Thank you for your time,

Zach Bendt

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