2/26/16

TO: Casey Howard

FROM: Ryan Brody, Anthony Caffaro, Ava Mistry

Subject: Milestone 2 Completion – Documentation Team

As the documentation team in Green Crew for Milestone 2, team 4 created a complete drawing packet for the X and Z drive assemblies. This process involved converting .stl files to .SLDPRT parts, fabricating any other necessary parts in Solidworks, combining the parts into a complete sub-assembly, and creating drawings for the sub-assembly and each individual part excluding hardware.

We pursued a drawing of the assembly as a whole, as outlined in the drawing packet requirements, but ran into significant compatibility issues between computers. When the assembly file was opened on a computer other than one of the workstations in the Instrumentation Lab, all of the hardware disappeared from the assembly. We attempted to rectify this issue but were unable to find a reasonable workaround, which was the primary reason for the minor delay in the submission of this milestone. We anticipate fixing this issue promptly at the beginning of the week to facilitate resubmission of a more complete packet. Additionally, we found that keeping files up to date between team members was a bit of a chore, and are looking forward as a team to utilizing Github to simplify file management.

Outside of these technical issues, the remainder of the documentation preparation went smoothly, although there was still a fairly significant learning curve. Despite being able to observe the process of team 3 in the previous milestone and receive their feedback, moving back into Solidworks after a significant period of time away was still a lot to process. Part creation went very smoothly as a whole, however, drawing and assembly creation was more challenging. The assembly was very time and resource intensive due to the large number of hardware parts incorporated in the assembly, which took a toll on the speed at which the assembly could be created. Additionally, the drawings require an attention to detail that we are still trying to develop fully. While we feel that we produced a solid end product, we are prepared for additional feedback and look forward to implementing these suggestions to improve as much as possible.

Sincerely,

Team 4