

Semester II Bi-Weekly Report I

Advisor(s): Gary Tuttle

Client: NASA Marshall Space Flight Center

Members (Roles): **Isaac Johns**-Team Communicator, **Ryan Bissett**-Team Communicator, **Tom Henry**-Webmaster, **Luke Dahlman**-Team Leader, **Anh Ho**-Key Concept Holder, **Dustin Pierce**-Key Concept Holder, **Antjuan Buffett**

Project Title: Remote Deployment Circuit and Mechanism for Lightweight CubeSat Solar Panels

Bi-Weekly Summary

For the first few weeks of this semester, the group has been focusing on parts ordering and thinking about testing. Group meetings focused on coming up with a new timetable for the semester, making sure all our plans were in order from last semester, and that our parts were on the way.

Group Member Contributions and Plans

Week 1 (2/10/15):

Team Member Name	Weekly Comments	Total Time Spent
Isaac Johns	Researching photosil and implantox as physical and chemical modifications to the silicone rubber wheels.	2:00
Thomas Henry	Work on Boom, attended meetings	13:00
Dusting Pierce	<p>Team Meeting last week.</p> <p>For the next two weeks Ahn and I will be working on making a video of the model on solid works showing how our design works. I will also be getting more information on the testing of bearings and lubricants in space like conditions.</p> <p>Over the past two weeks we have meet to keep everyone on track</p>	1:00

	and make sure that we are doing the necessary research and have as much knowledge as possible prior to sending our model to NASA for testing.	
Luke Dahlman	Further research and documentation on the testing parameters that the Atmel chip underwent. Moving into the design board that was used for the testing. Went through the possible outcomes of our design code to ensure all possible outcomes have been considered. 4	4:00
Ryan Bissett	Reading on the behavior of steel in space.	1:00
Antjuan Buffett		
Anh Ho		

Week 2

Team Member Name	Weekly Comments and Plans for the Next 2 weeks	Total Time Spent
Isaac Johns	Creating Adobe Illustrator outline for acrylic box cutout - 2 hours Searching for hollowed wheels & trip to Lowe's - 2 hours Writing about NASA using primasil polymers and modifying the surfaces with photosil and implantox - 2 hours Plan to help get the box laser cut and help with the assembly of the design	6:00
Thomas Henry		
Dusting Pierce	Team Meeting last week.	1:00

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Luke Dahlman	<p>Completed Laser cutter classes.</p> <p>Continued to discover testing information on our fpga design board.</p> <p>During the next week we hope to have all parts on site and start to connect the different components. We shall also have a meeting with Dr. Carr on Thursday.</p>	5:00
Ryan Bissett	Reading up on HIDs	2:30
Antjuan Buffett		
Anh Ho		