MEETING MINUTES

Topic: Staff Meeting

Date: Thursday, June 24, 2019 Time: 5:30pm - 6:00pm Location: Engineering Building Rm. 321

Minutes recorded by Nestor Rodriguez

Meeting called by Dr. Trevas

Attendees: <u>All group members</u>

Table 1. Record of meeting.

5:30 pm to 5:40 pm	Item 1	
	 Discuss electric actuated jack Can tap into the hydraulics and place a pressure gauge to the hydraulic cylinder Otherwise maybe use load cells Don't know if this is practical How do you control pressure in an electric jack? Some jacks simply run the motor backwards Could find out how much force corresponds to a revolution of the motor Program motor to go to correct force Diameter of cylinder: ? 	EGR Building Rm. 321
5:40 pm to 5:45 pm	Item 2 Discuss Bearing selection	EGR Building Rm. 321
5:45 pm to 5:50 pm	Item 3 • Discuss cost cutting for hydraulics • Use: NorTrac 12 Volt DC Hydraulic Power Unit • 2000lb force • Need 3in diameter bore • Need larger axial jacks • Cost including valves and fittings: 1590.26	EGR Building Rm. 321
5:50 pm to 5:55 pm	 Item 4 ● Discuss raw materials ○ More expensive than thought 	EGR Building Rm. 321

	 Need 6x6x12in solid steel bar costs \$994.00 Maybe buy small pieces and weld together? Weld should be stronger or as strong as material May need to use trusses 	
5:55pm to 6:00	 Discuss force sensors Force sensors are a no go, they only handle 20lbs Problem: Mounting load cell 	EGR Building Rm. 321

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
Improve hydraulic system	Nestor	1/29/2019	1/28/2019
Figure out which machine bearings to use	Blake	1/29/2019	1/28/2019
Find out feasibility of using a strain gauge for a compressive load	Jeff	1/29/2019	1/28/2019
Figure out method on how to build the frame	A.J.	1/29/2019	1/28/2019
Find out inner workings of electrically actuated hydraulic jack	Barek	1/29/2019	1/28/2019

Next formal meeting: 1/29/19, Web Meeting, at 4:00pm. Next member responsible for_meeting minutes: Nestor