

# MEETING MINUTES

## Topic: EGR 486C Team Meeting

Date: Monday, November 5, 2018

Time: 5:50 pm - 6:15 pm

Location: Engineering Building

Minutes recorded by Nestor Rodriguez

Meeting called by Dr. Trevas

Attendees: All group members

Table 1. Record of meeting.

<b>5:50 pm to 6:10pm</b>	<b>Item 1</b> <ul style="list-style-type: none"><li>• Updates<ul style="list-style-type: none"><li>○ No bending moment allowed on shaft<ul style="list-style-type: none"><li>• Plan on applying uniform load upon a shaft<ul style="list-style-type: none"><li>• Shorten the shaft the size of 1-2 test bearings to create a uniform load between supports</li><li>• A bending moment will still exist at supports</li><li>• New idea: Have a forked mechanism apply the radial load at either end of the test bearing</li></ul></li></ul></li></ul></li></ul>	EGR Building
<b>6:10pm to 6:12pm</b>	<b>Item 2</b> <ul style="list-style-type: none"><li>• Hydraulics<ul style="list-style-type: none"><li>○ Research pumps</li><li>○ Then research valves (such as servo valves)</li><li>○ Research the ram next</li><li>○ Don't worry about the filter, or just throw one on</li></ul></li></ul>	EGR Building
<b>6:12pm to 6:15pm</b>	<b>Item 3</b> <ul style="list-style-type: none"><li>• Torque measurement</li><li>• Invent a system where a fluid is used to create a force that travels around a hoop thus generating a torque<ul style="list-style-type: none"><li>○ May be too hard</li></ul></li><li>• Use a linear actuator to apply torque linearly, use trigonometry to determine torque</li></ul>	EGR Building

	<ul style="list-style-type: none"> <li>○ Easier</li> </ul>	
<b>6:15pm to 6:20pm</b>	<b>Item 4</b> <ul style="list-style-type: none"> <li>● Shielding <ul style="list-style-type: none"> <li>○ Will be a plexiglass rectangle</li> <li>○ If pneumatics used, additional blast shielding necessary</li> </ul> </li> </ul>	

**Table 2. Tasks Assigned.**

<b>Task</b>	<b>Person Assigned</b>	<b>Due Date</b>	<b>Date Complete</b>
Design bearing supports	Aj	11/9/18	11/8/18
Calculate forces acting upon shaft, recommend best material	Barek	11/9/18	11/8/18
Research strain gauges, find an acceptable kit	Jeff	11/9/18	11/8/18
Create a more detailed final design concept	All	10/18/18	10/17/18
Research belts and pulleys, recommend best combination, or determine best combination for a hydraulic system	Nestor	11/9/18	11/8/18

**Next formal meeting: 11/7/18, Engineering Building, at 5:15pm.**

**Next member responsible for meeting minutes: Nestor**