

# MEETING MINUTES

**Topic: Helmet Staff Team Meeting**

**Date: Thursday, February 14, 2019**

**Time: 6:10 pm – 6:30 pm**

**Location: Engineering Room 321**

**Minutes recorded by** Titus Yazzie

**Meeting called by** Dr. Trevas

**Attendees: All members (Mana?)**

**Table 1. Record of meeting.**

<p><b>6:10 pm to 6:20 pm</b></p>	<p><b>Discussion of individual tasks assigned</b></p> <ul style="list-style-type: none"> <li>- Client wants angular acceleration             <ul style="list-style-type: none"> <li>o Gyroscope?</li> <li>o The main cause of brain injuries</li> </ul> </li> <li>- Laser sensor working</li> <li>- Accelerometer is working             <ul style="list-style-type: none"> <li>o The team has the small piece of an accelerometer</li> <li>o What can we do with this piece</li> </ul> </li> <li>- Ultrasonic sensor is a work in progress</li> <li>- The team needs to work on the SD card             <ul style="list-style-type: none"> <li>o Eventually be able to transmit data via Bluetooth</li> <li>o Has code,</li> </ul> </li> <li>- Find a board for the accelerometer             <ul style="list-style-type: none"> <li>o Either purchase new one or assemble together</li> </ul> </li> <li>- Use digital instead of analog</li> <li>- Build a lever arm to test the system.</li> <li>- Compare with padding and no padding</li> <li>- ASTM testing in progress</li> <li>- Series of sensors</li> </ul>	<p>EGR Rm 321</p>
<p><b>6:20 pm to 6:30 pm</b></p>	<p><b>Discussion of individual analysis</b></p> <ul style="list-style-type: none"> <li>- Mana - ASTM testing</li> <li>- Race - Bluetooth</li> <li>- Omar - How to measure impulse             <ul style="list-style-type: none"> <li>o Impulse = force*time</li> </ul> </li> <li>- Fares - velocity of sensor of oncoming object             <ul style="list-style-type: none"> <li>o Range of field for sensors</li> <li>o 0 degrees to 30 degrees</li> </ul> </li> <li>- Titus - How accelerometer/gyroscope effect brain injuries</li> <li>- Have client show his references for angular acceleration</li> </ul>	<p>EGR Rm 321</p>

<b>6:30 pm to end</b>	<b>Plan for next meeting</b> <ul style="list-style-type: none"> <li>- Discussion of action tasks</li> <li>- Discuss about client meeting</li> </ul>	EGR Rm 321
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Table 2. Tasks Assigned.

<b>Task</b>	<b>Person Assigned</b>	<b>Start Date</b>	<b>Date Complete</b>
	Race	2/14/19	
	Omar	2/14/19	
	Fares	2/14/19	
	Mana	2/14/19	
	Titus	2/14/19	
Meet with client and work on Hardware Review 1	Team	2/14/19	

**Next formal meeting: 2/28/19, EGR Rm 321, at:pm**  
**Next members responsible for agenda: Omar**  
**and meeting minutes: Titus**