

MEETING MINUTES

Topic: Helmet Team 5th Staff Meeting

Date: Monday, November 19, 2018

Time: 6:10 pm –6:30pm

Location: Engineering Rm 314

Minutes recorded by Race Oshiro

Meeting called by Dr. Trevas

Attendees: All members present

Table 1. Record of meeting.

<p>6:10 pm to 6:200 pm</p>	<p>Discussion of assignments/ tasks due</p> <ul style="list-style-type: none"> - Individual assignments for team - Any updates? - Not much updates besides action items from previous Meeting - Fares, pressure sensors are not gonna work because it will be too late, we want sensors to sense before the impact - Proximity sensors have a short range - use speed of light equation with radar system - doppler shift can be used to calculate speed - when light is approaching looks blue - when light is leaving looks red - laser reads two readings and speed is change in distance over $time_1 - time_2$ - minimum is 30 milliseconds between readings - what is the resolution of the sensor, need to find resolution needed and the sample rate - cheapest sensor is 47\$ need to find specs for the sensor such as RANGE, RESOLUTION and SAMPLE RATE 	<p>EGR Rm 314</p>
<p>6:20 pm to 6:25 pm</p>	<p>Discussion of Individual Tasks</p> <ul style="list-style-type: none"> - Titus plans to learn more about the foam - Omar gain an impulse equation understanding - can use ultrasound to find the momentum - take derivatives of data points to get the velocity from displacement - use discrete math and finite differencing to calculate velocity - Race looked at feasibility of airbag implementation, important to use a low threshold for when airbag will go 	<p>EGR Rm 314</p>

	off	
6:25 pm to end	Plan for next meeting <ul style="list-style-type: none"> - Do some research for each given task - New item action for each member by next staff meeting 	EGR Rm 314

Table 2. Tasks Assigned.

Task	Person Assigned	Due Date	Date Complete
Airbag Research	Race	12/5/18	12/5/18
Work on Arduino	Omar	12/6/18	12/6/18
Find information on Sensors	Fares	12/3/18	12/3/18
Viscoelastic Material Research	Mana	12/3/18	12/3/18
Research MR Foam	Titus	12/3/18	12/3/18

Next formal meeting: 12/3/18, EGR rm. 314, at 6:00pm.
Next members responsible for agenda: Omar
and meeting minutes: Fares