



**A SPORT GOGGLE
“RUGBY GOGGLE DAMAGE SENSOR”**

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GROUP : NSR2435S2A

NAME : KAMARUL AIZAT BIN AZHAM (2019584445)

PREPARED FOR;
MADAM HILWANA BINTI ABD KARIM

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NO	TITLE	PAGE NUMBER
1	1.0 EXECUTIVE SUMMARY	4
2	2.0 PRODUCT DESCRIPTION	4
3	3.0 TECHNOLOGY DESCRIPTION	5
4	4.0 MARKET ANALYSIS AND STRATEGY	7
5	5.0 MANAGEMENT TEAM	15
6	6.0 CONCLUSION	18
7	7.0 APPENDICES	19

1.0 Executive Summary

This report was explain how this product should be highlighted in rugby sport especially to the ruggers who had an eyes problem. This report also is to highlight the safety of the players during competition especially their eyes which it is the asset for the players. We know that not all rugby players had a perfect sight of view which maybe several of them had a short sighted problem or an injury at the eyes but they still want to play rugby as the sport is their hobby. From the research that I studied about the use goggle in sport is, we all know that many sports already use this facilities but in rugby, the product are produced and being used in Rugby World Cup 2019 at Japan. Many factors that have been take by the company of product to make sure this product are safe to use for the rugby players. As innovation that I make, I put a sensor at the goggle and damage scanner technology for the goggle which will convenience the customers about safety of their eyes. In the market, this product and combine technology are not available yet in any market which this will be the first time. But we know the goggle for football, for tennis are already in market but it has difference between rugby goggle. Firstly the pattern of the goggle are difference with rugby goggle which is rugby goggle mirror are more bigger and the mirror are build for impact resistance that can come with glasses for the short sighted players. And from this report, I will explain in details how the technology will be use and differences of this goggle with others competitors. We will make sure this product can be used by the rugby players with full of confident despite it can help on performance of the players. Even the technology are first time will be used for the goggle, it will help in a lot of aspect such safety of the athlete during training of competition.

2.0 Product Description

The product which rugby goggle had two function which is to protect the eyes from any impact and to help players with short sighted problem. For the players who does not have a short sighted problem, he or she will wear only goggle but if the players with a short sighted problem, he or she will wear a goggle with glasses that have power based on the level of short sighted of the player. So by this two function of the goggle, it will help players

to secure more about their eyes. The problem statement is the players are not confident to wear this goggle because they are scared if the mirror is broken and will hit their eyes and injury become worse. Most rugby players will have the same feeling about this product and technology added because the product is still new, even professional rugby players Ardie Savea have worn this goggle in Rugby World Cup 2019, but it will take time to convince the people. So by this innovation which is we put a sensor and damage scanner is to convince the rugby players about the safety of their eyes which will detect the condition of the goggle immediately. They are also scared if the sensor or technology is broken during a game and can harm their eyes directly such as a small explosive or something like that. If this accident happens, it can eliminate the product or improve the product and technology in the future. Other than that, for the players who do not have a short-sighted problem, they feel uncomfortable to wear the goggle because before this product and technology are available, they did not wear any equipment or facilities to take care of their eyes, so that's why they will feel uncomfortable to wear this product. By this product, it will help the rugger who had an eye problem or short-sighted problem which this product can be used during games.

3.0 Technology Description

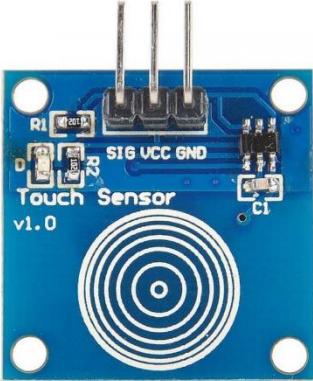
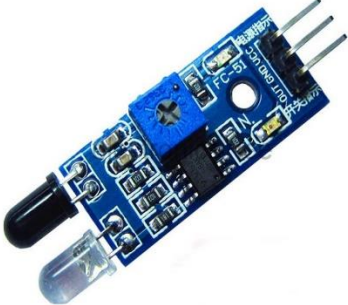
For my product which is a rugby goggle with a damage sensor, the technology involved is a sensor and scanner.

For a sensor, the sensor will be located at the side of the goggle mirror and the coach or physician will hold the sensor equipment on the outside. When the spectacle is hit every time, it will give a sense of sound through the equipment. This technology can be imagined such as a car alarm. When someone touches it, it will make a sound similar to this rugby goggle. When a coach notices the spectacles are being hit frequently, they will call the players to come out and scan the mirror. This step will show how the damage scanner works.

The scanner will scan the mirror and it will determine the particles inside the mirror which we know the particles for a mirror are solid. So by scanning it will show on the laptop if the particles are still stuck or the particles are moving away. When the particles are moving

away, we know that maybe one hit will broke the glasses, and we will change the goggle to the new one. So this is how the technology will be use for this goggle.

So basically and based on my product which is rugby goggle with damage sensor, it had 3 function which to secure eyes from injury, to help short sighted players for having a perfect view and give the signal to coaches about the condition of the goggle and change the goggle to the new one.

NO.	TECHNOLOGY	FEATURES
1.	<p>TOUCH SENSOR</p> 	<ul style="list-style-type: none"> • Detect touch information when something hit the net. • When there is contact with the surface of the touch sensor, the circuit is closed inside the sensor and there is a flow of current. • The measurement circuit will detect the change in the capacitance and converts it into a trigger signal.
2.	<p>INFRARED SENSOR</p> 	<ul style="list-style-type: none"> • The most widely used motion system and when the system is armed, the motion sensors are activated.