



اَوْنِبُوْا سِيَّتِيْ تَتِيْكَوْا لُوْكِيْ مَارَا
UNIVERSITI
TEKNOLOGI
MARA

ENT 600 TECHNOLOGY ENTREPRENEURSHIP

TECHNOLOGY BLUEPRINT FOOTBALL SHOES SENSOR

FACULTY OF SPORT SCIENCE AND RECREATION

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1.EXECUTIVE SUMMARY

Nowadays, we know all ages are eager to do exercise and concerned about their healthy lifestyle especially in football or rugby. Especially in football, before they play in the field they need football shoes. The point here we want to focus here is our football shoes sensor. Our football shoes sensor is designed to give more interest to a user to use the shoes to play a football. Our football shoes sensor focuses on 100% developed technology on football shoes while using a sensor. For our product, the mechanism and its objective are simple which is to provide a sensor on use and use a light material to ensure the shoes is light to run, comfortable to wear it and the shoes provide information to a user to give feedback about their gameplay.

The football shoes sensor is an innovation of standard football shoes that do not have any sensor and a lot of lackness. The product is less costly and affordable compared to other technology like VAR(video assistant referee), chest chip sensor and video performance that record by performer analytic . VAR technology is an expensive technology. The target market for this product is the Sport shop, Sport center, Sport school and Project sport development center. This product is designed to counter the weather too like rain and snow because when the condition of the feel is wet and puddle, the shoes easily become heavy because they don't have water resistance. This technology will give new experience and easily develop a youth player.

In addition, this product really durable and highly quality when a customer or athlete buy it. This product will harm the standard rule and protocole of the game or gameplay of the sport when athlete or normal people use it. Then equipment is really safe for all ages when use it.

Meanwhile the product provide information to a player to boost a performance instantly in game while they play.

2. PRODUCT DESCRIPTION

In the modern era, we can see the lack of VAR technology, chest chip sensor and video that record by performer analytic. In fact, the problem is people have been admiring to use that technology too in their daily match or training but the admin or certain owner of the club ,competition cannot buy those technology because it is very costly. In contrast, combine from those technology that give a most similar objective but less cost than VAR technology.

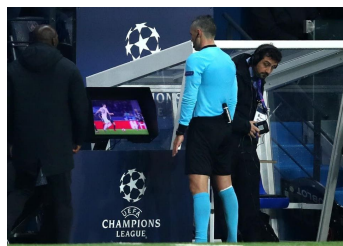


Figure 1 : chest sensor Figure 2 : VAR in field Figure 3 :Outside field VAR

During the product design, we take inspiration from the current technology and network by combining the pressure sensor, vibration sensor, sensor of force and the nano technology for the skin of the shoes. In fact, we also use technological and economic criteria like working concept, reliability, health of product and the esthetic value. In addition, this is a reason why we develop of this product to increase the performance of athlete or user. Beside that, this product also use to decrease the chances for athlete or user get injured during the competition. This product can be use on tournament, friendly match or play for recreation,

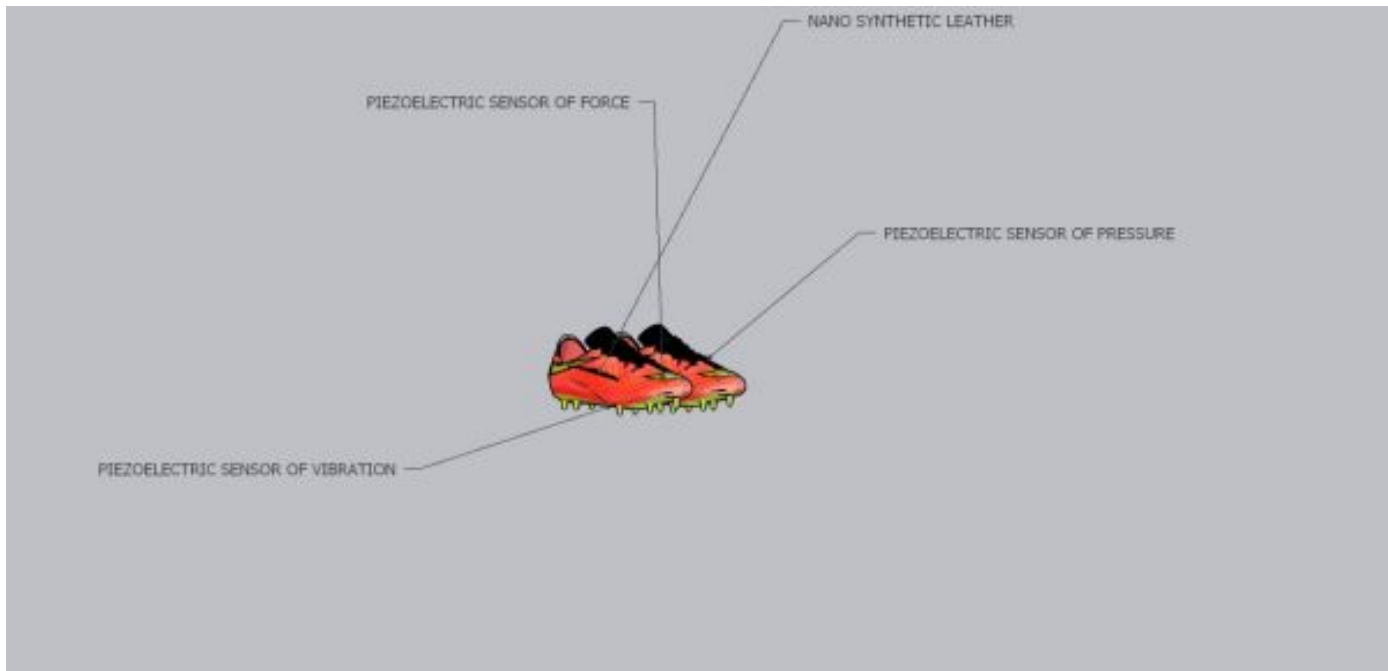


Figure 4 : football shoes sensor

Football shoes sensor is produce on a variety design and functional. As we can see hear, this football shoes design based on sensor and development skin of the shoes to give a user more comfortable for this shoes. Every type of sensor in shoes have functional to give a result for a user. Like Piezoelectric sensor of force, we can measure of force that user to shoot a ball and accuracy of the ball target. Then for the vibration sensor is more on precaution for the user if they mislanded when jumping on the air the shoes will give sign of vibration to prevent the user or athlete get injury. In contrast for the sensor of pressure is design to use to detect the position of the athlete when they use it.