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THE RAIDERS

PROJECT PROPOSALS

PRODUCT TITLE:

“COLLISION DETECTION HELMET”

PRODUCT DESCRIPTION:

This helmet is made for football players in order to detect collisions and potentially detect concussions by medical staffs.

PRIMARY APPLICATION PROPOSALS:

The device that is attached to the helmet is the ADAfruit feather M0. The device will be utilized to detect G forces in real time in order for the professionals to analyze and detect collisions and potentially concussions. The device will be able to transfer data through the radio frequency to get the message. The device will be powered up by a lithium battery which will be powerful enough to power up the helmet throughout the whole game.

REQUIREMENTS:

- A Football Helmet
- ADAFruit Feather M0
- Detecting the force of the impact
- Sending Data through radio frequency

STRETCH OBJECTIVES:

- Tracks the forces and reports them through a radio frequency to a professional to check the information.
- Potentially the device will be placed inside the helmet with a plastic shell to protect the components or placing the components between existing cushion pads in the helmet and covering them with another layer of cushion.