

## **Abstract of the Disclosure**

A system for monitoring and analyzing angular velocities in real time and reporting a collision once a specific angular velocity threshold has been reached. An independent sensor evaluates angular velocities (including jerk and jolt) and simultaneously pushes raw accelerometer data to a communication device. The communication device simultaneously and independently from the sensor, monitors its own angular velocity in real time. Once a predetermined angular velocity threshold has been reached on both the independent sensor and the communication device's separate angular velocity data, it triggers a preprogrammed set of events within the communication device and a third party, cloud based server. Both the sensor and communication device are designed to be mobile as well as physically independent of one another, however they are connected through a digital stream of raw data/information via Bluetooth Low Energy (BLE). The angular velocity thresholds are designed to predict the possibility of bodily injury to the user in the event of an accident. Once the communication device interprets that the angular velocity threshold has been met or exceeded, a set of events are triggered to contact emergency phone numbers, using the third party, cloud based server. Along with monitoring the angular velocity of both the independent sensor and the on board sensor, the communication device also tracks in real time its current GPS location. Once the angular velocity threshold has been met on both sensors, the current GPS location is also sent to the emergency contacts.