

Innovation Project Abstract

Our innovation project helps and completes the work of lifeguards, protection and prevention of accidents of bathers at sea. It includes a camera mounted on a buoy that transmits real-time video to a lifeguard at a distance of up to one kilometer. More specifically, the camera is connected to a Raspberry Pi 4, which has the ability to transmit video with minimal delay directly to the lifeguard's device. In addition, we have developed swimmer identification software designed to identify people in distress and provide continuous updates to the lifeguard. The buoy is also equipped with a photovoltaic panel, which ensures that the Raspberry Pi is powered without the need for battery charging especially during the summer months when lifeguard activity is at its peak. In conclusion, our innovative project is a groundbreaking initiative with the potential to save countless lives around the world.