

## Abstract

Real time data of an individual's heart rate has many applications in the medical and fitness monitoring industry. Our product is a compact wearable device coupled with a base station on the IoT that will give users a real time feed on their heart rate and blood oxygen levels. Using a smart-phone application, users and medical professionals will be able to track their personal health data make relevant decisions. Unlike many applications, our systems aims to be affordable, non-invasive, and easy to use.