

# Athlete Web Application

using Polar H10<sup>©</sup> and Polar Verity Sense<sup>©</sup>

# Main idea

- Main goal is to get the data from both of the sensors in real time and display it in Chrome browser.
  - This is done with using the Web Bluetooth API that to our knowledge Polar is not using at this time.
  - We will try to display the data in a simple matter, so every end-user can easily understand it
  - It should be possible to calculate the speed a sensor is being moved using the accelerometer

➔ **Because of this the web application could be relevant for the future development of Polar.**



# Simple design Idea for the Web-Application

Polar

connect device



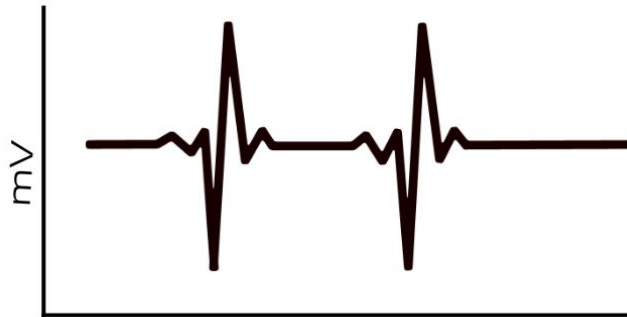
5

km/h

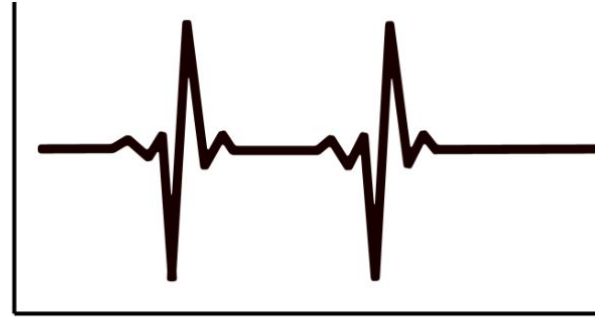


90 BPM

11:28



ECG



PPG

Live demonstration

# Over the top ideas

If we are able to implement all these goals, we have some additional ideas:

- We are thinking about including a database to store highest/lowest BPM etc.
- Program an algorithm that calculates the movement and speed of the user and put them in perspective
- develop a 3D model showing the users movements (only for the arm for now)