

OpenSleep

Original Project: [openSleep](https://open-sleep.com/)

Hardware

Since the original hardware is outdated i used an ESP32 microcontroller instead. The Heartrate sensor used in the original project did not work for me, so i ordered an MAX30102 sensor that is connected to the esp via i2c. It works a lot better than the old one, although it sometimes also has trouble recognizing a heartbeat. The flexsensor works perfectly fine.

Software

For the software i used the dormio web application made by [Eyal Perry](#). The application uses the chrome bluetooth api, which means that it does not work with other browsers. Unfortunately, Biosignal Sessions are not supported yet and i dont have much hope that they ever will be, since the application was last updated two years ago. Sessions based on a timer are available and the logging of the biosignals for later analysis does work.

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