

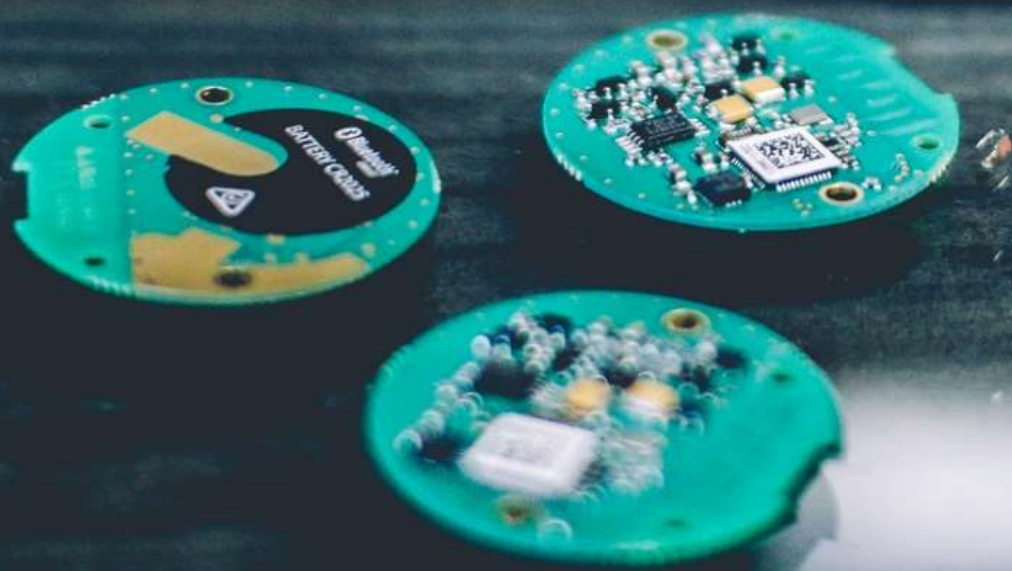
MOVESENSE OVERVIEW

Movesense meetup/Helsinki, Finland
3.12.2019

Jussi Kaasinen

vanol
hard flip
fakie flip
trick: nollie flip
switch flip
pressure flip

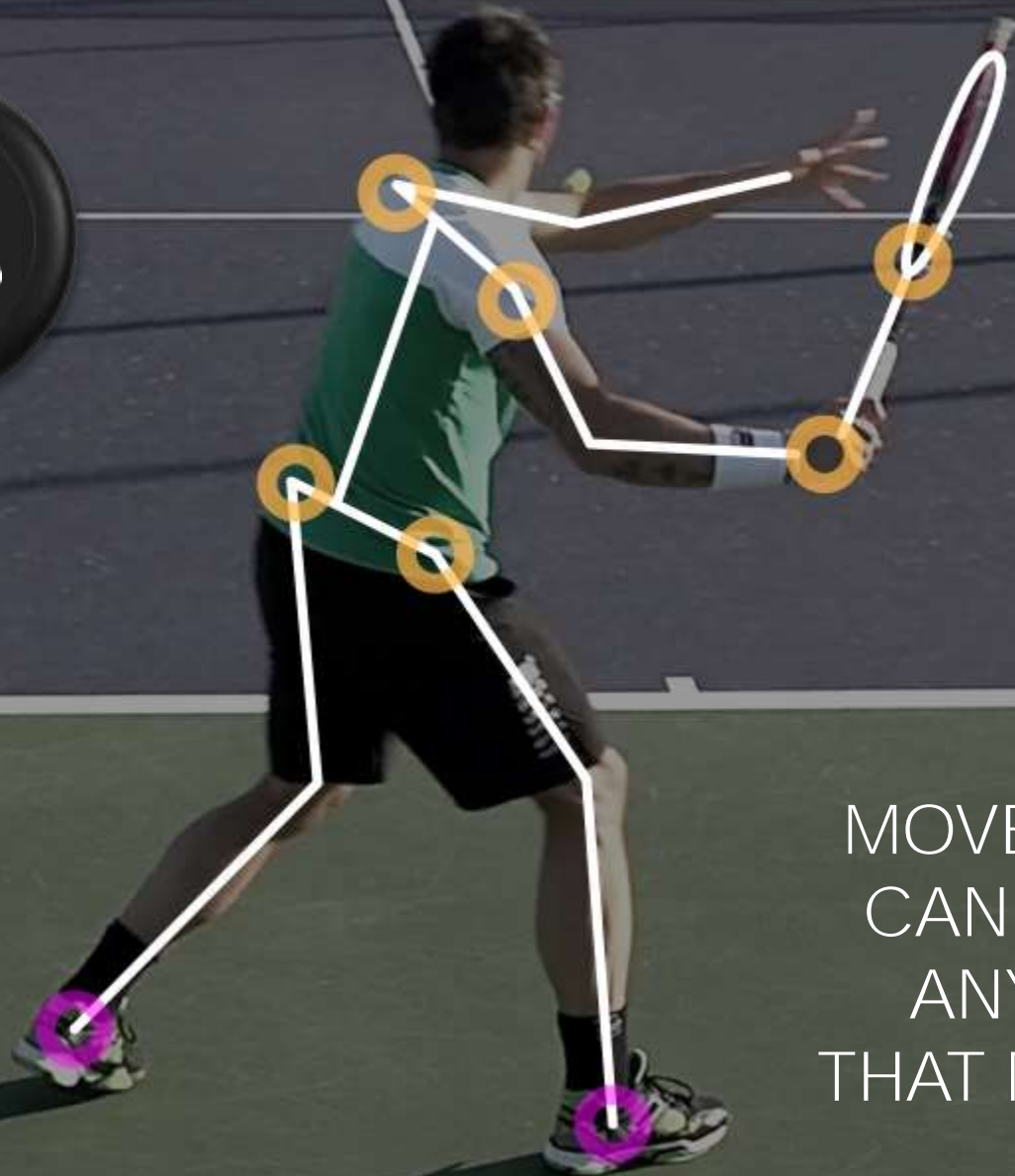






8000





MOVESENSE
CAN TRACK
ANYTHING
THAT MOVES.

To-do in every project...



MOVESENSE TAKES CARE OF!

Hardware development

Mechanical design

Firmware development

Sourcing

Manufacturing

Testing

Approvals

Industrial design

Packaging

Embedded software

Mobile app development

Backend development

Machine learning

Algorithms

Data analytics

User experience

Finance

Winning consumer concept

Awareness building

Distribution

Demand generation

•MOVESENSE



Gear



Connector



Sensor



Phone



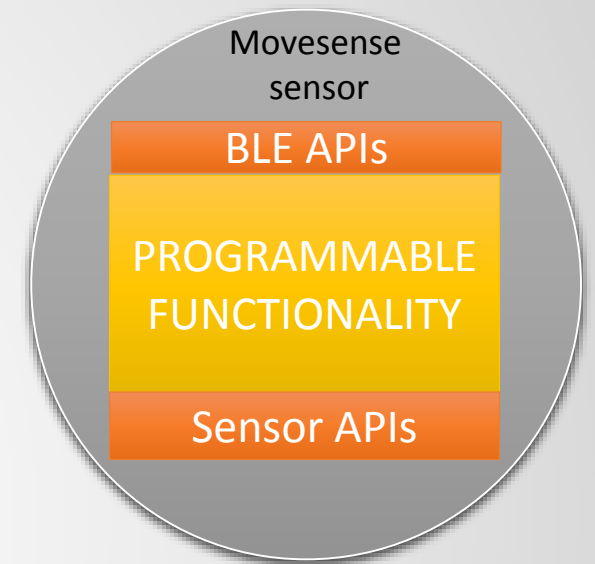
Cloud

Heart rate, R-R, 1ch ECG,
accelerometer, gyroscope, magnetometer,
temperature, memory, LED,
1-wire extension bus,
customizable firmware

www.movesense.com

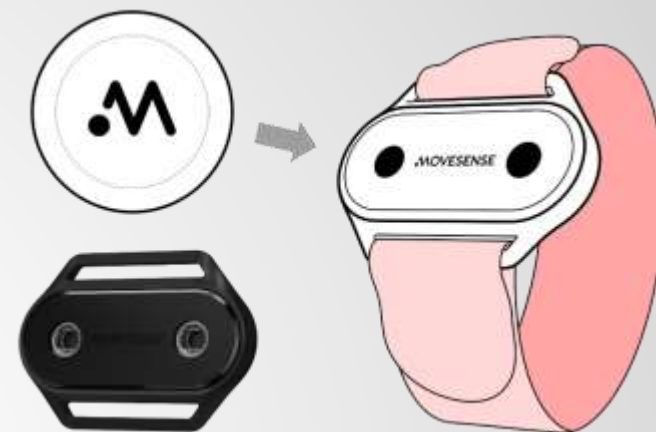
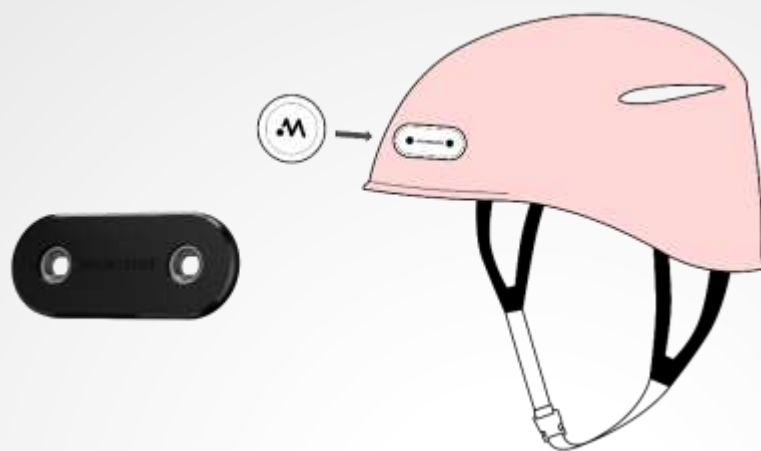
Programmable Software platform

- Sensor user app/firmware is fully customizable
 - I.E. Customers can develop own software functionality that runs INSIDE the Movesense sensor
- REST APIs
 - GET, PUT, POST, DELETE
 - Sensor data subscriptions
 - Data logging, BLE communications, power control, ...
- Documentation: movesense.com/docs
- Software Development Tools and code examples freely available in Bitbucket
 - <https://bitbucket.org/suunto/movesense-docs/wiki/Home>
- PC simulator
- 3rd Party tools:
 - Unity 3D plugin
 - IBM Cloud examples
 - Microsoft Azure, Xamarin



The screenshot shows a code editor with a dark theme. The code is written in C++ and appears to be a driver for a DS2465 sensor. It includes various function definitions and comments. Key elements include: a search bar at the top, a file explorer on the left showing a project structure with folders like 'DS2465_providerApp' and 'DS2465_driverApp', and a main code area with line numbers on the left. The code includes comments in Finnish, such as '// Do transition triggers here instead of base class so that we can take a' and '// Sets up this state machine for new data command operation'.

WEARABLE ATTACHING OPTIONS

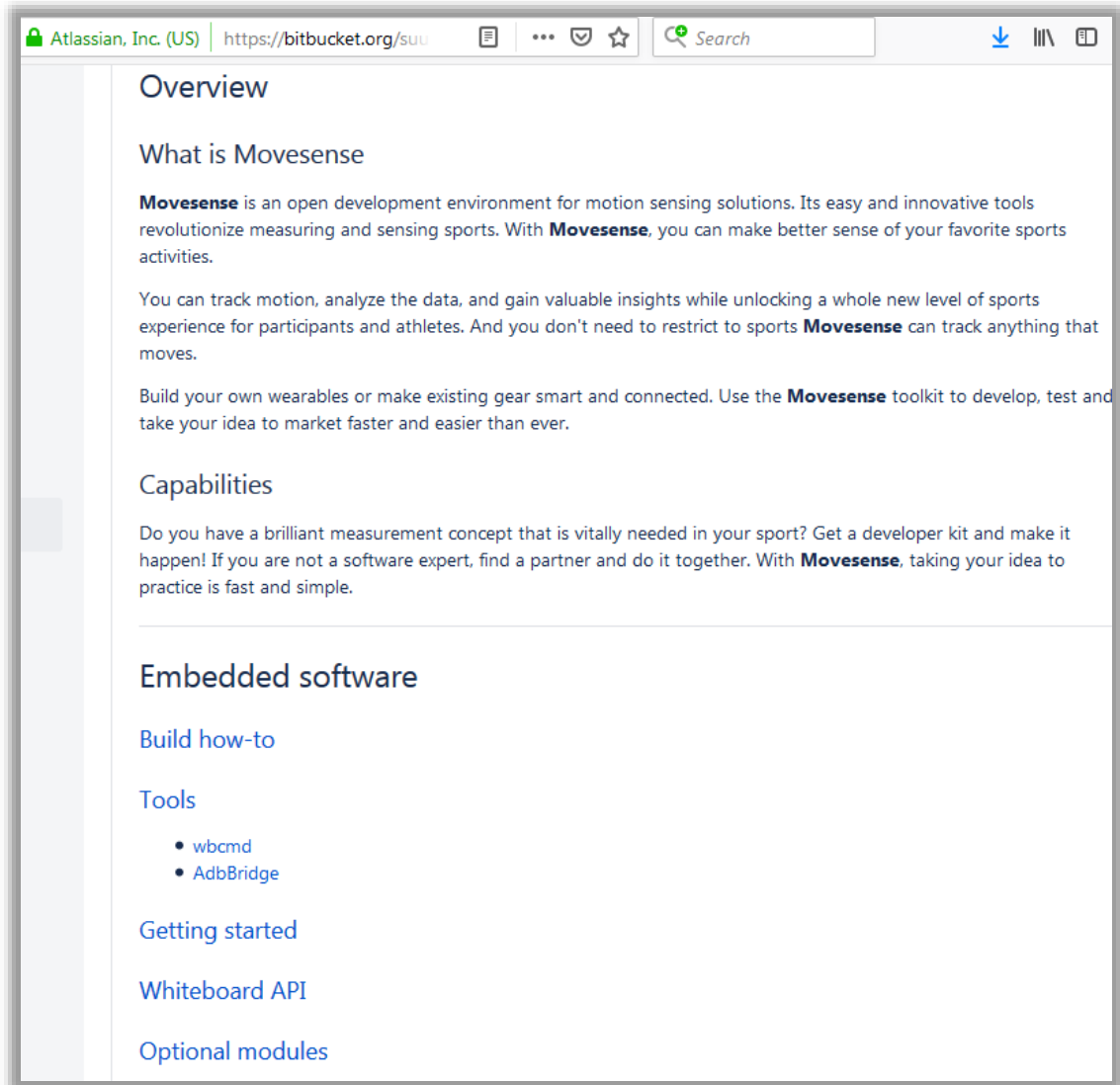


Production, Quality

- Movesense is in mass production
- ISO 9001, ISO 14001, ISO 13485 underway
- Approvals: CE, FCC, IC, CMIIT, AU/NZ, Japan approval underway



Documentation & free SW dev tools: movesense.com/docs



The screenshot shows the Movesense documentation website. The browser address bar displays 'https://bitbucket.org/suu'. The page has a sidebar on the left with navigation links: Overview, What is Movesense, Capabilities, Embedded software, Build how-to, Tools, Getting started, Whiteboard API, and Optional modules. The main content area is titled 'Overview' and contains the following text:

What is Movesense

Movesense is an open development environment for motion sensing solutions. Its easy and innovative tools revolutionize measuring and sensing sports. With **Movesense**, you can make better sense of your favorite sports activities.

You can track motion, analyze the data, and gain valuable insights while unlocking a whole new level of sports experience for participants and athletes. And you don't need to restrict to sports **Movesense** can track anything that moves.

Build your own wearables or make existing gear smart and connected. Use the **Movesense** toolkit to develop, test and take your idea to market faster and easier than ever.

Capabilities

Do you have a brilliant measurement concept that is vitally needed in your sport? Get a developer kit and make it happen! If you are not a software expert, find a partner and do it together. With **Movesense**, taking your idea to practice is fast and simple.

Embedded software

[Build how-to](#)

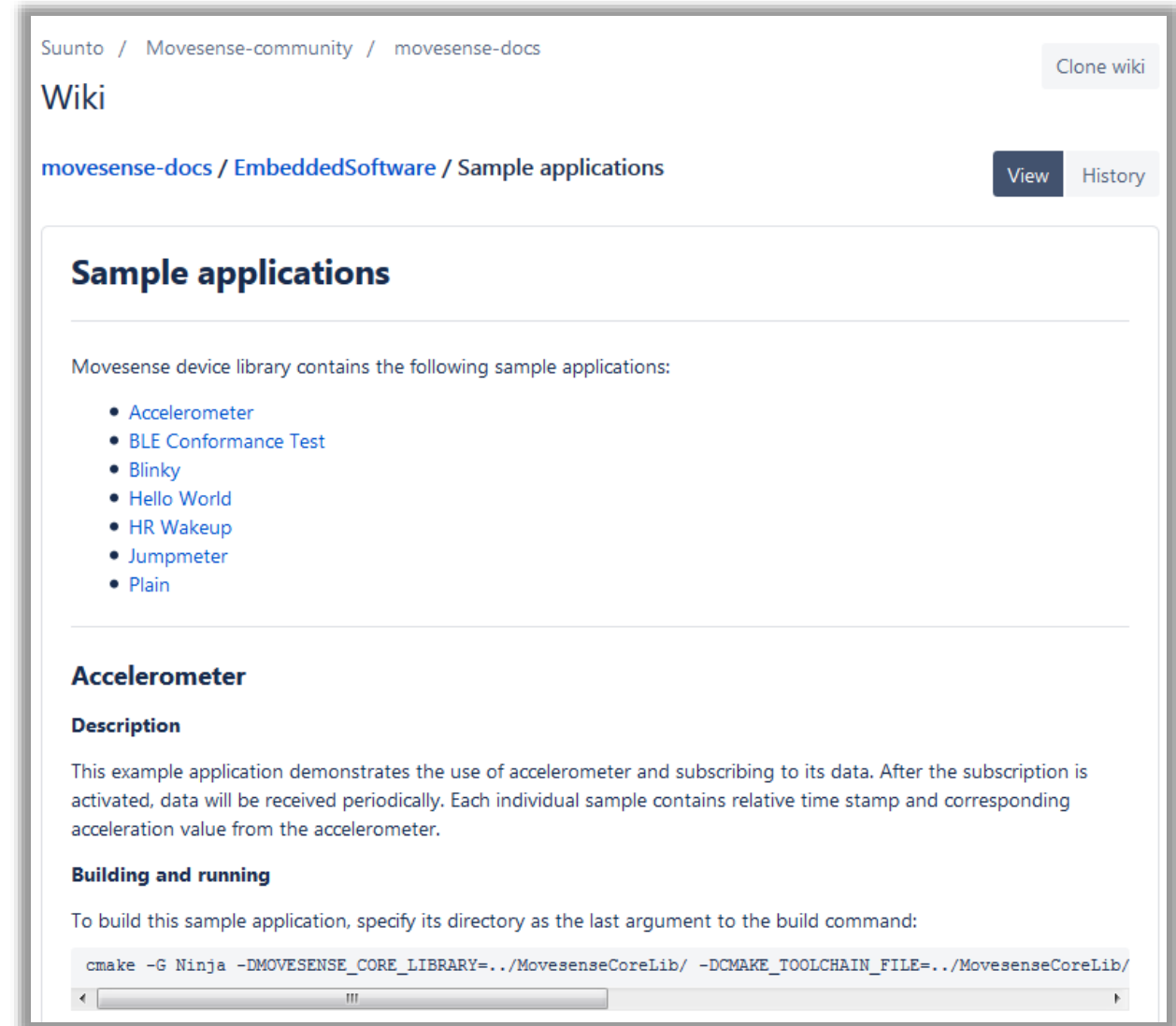
Tools

- [wbcmd](#)
- [AdbBridge](#)

[Getting started](#)

[Whiteboard API](#)

[Optional modules](#)



The screenshot shows the Movesense documentation website, specifically the 'Sample applications' section. The browser address bar displays 'https://bitbucket.org/suu'. The page has a sidebar on the left with navigation links: Overview, What is Movesense, Capabilities, Embedded software, Build how-to, Tools, Getting started, Whiteboard API, and Optional modules. The main content area is titled 'Sample applications' and contains the following text:

Sample applications

Movesense device library contains the following sample applications:

- [Accelerometer](#)
- [BLE Conformance Test](#)
- [Blinky](#)
- [Hello World](#)
- [HR Wakeup](#)
- [Jumpmeter](#)
- [Plain](#)

Accelerometer

Description

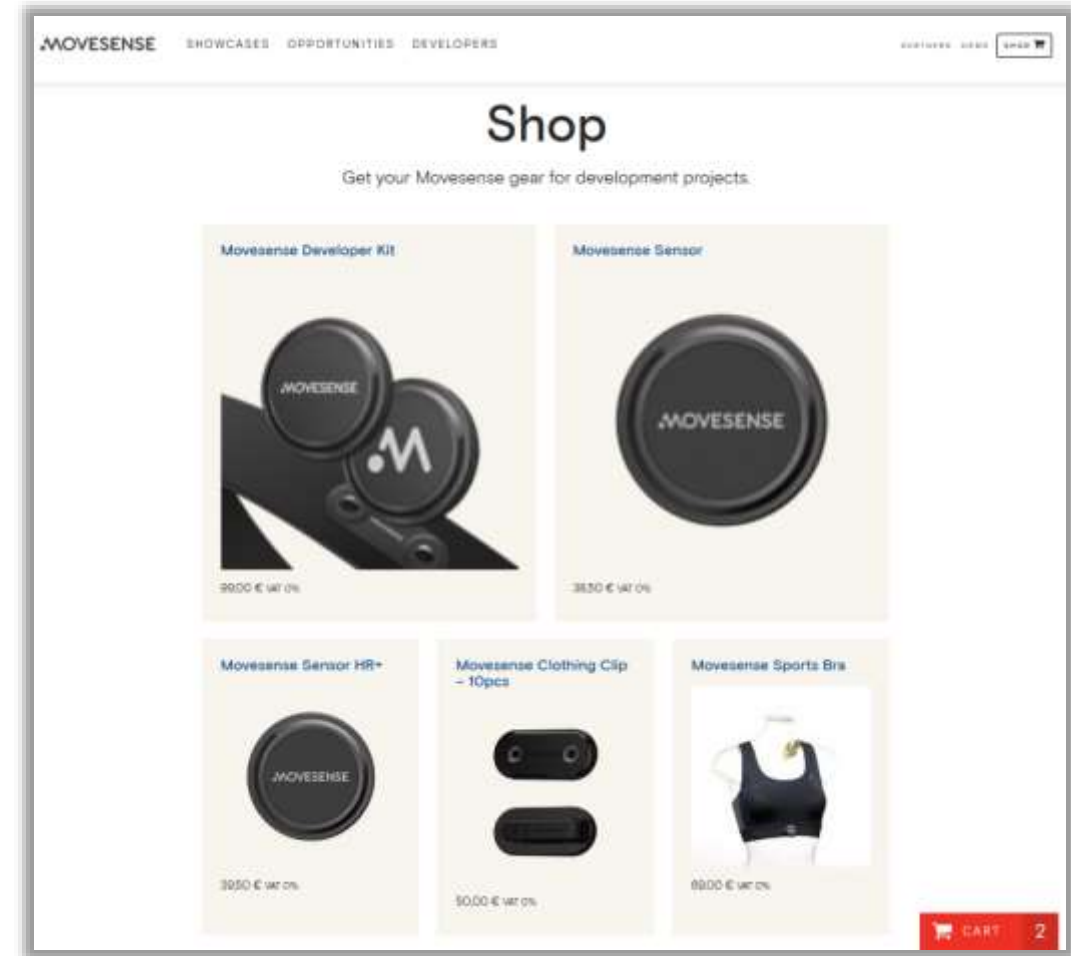
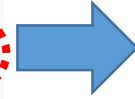
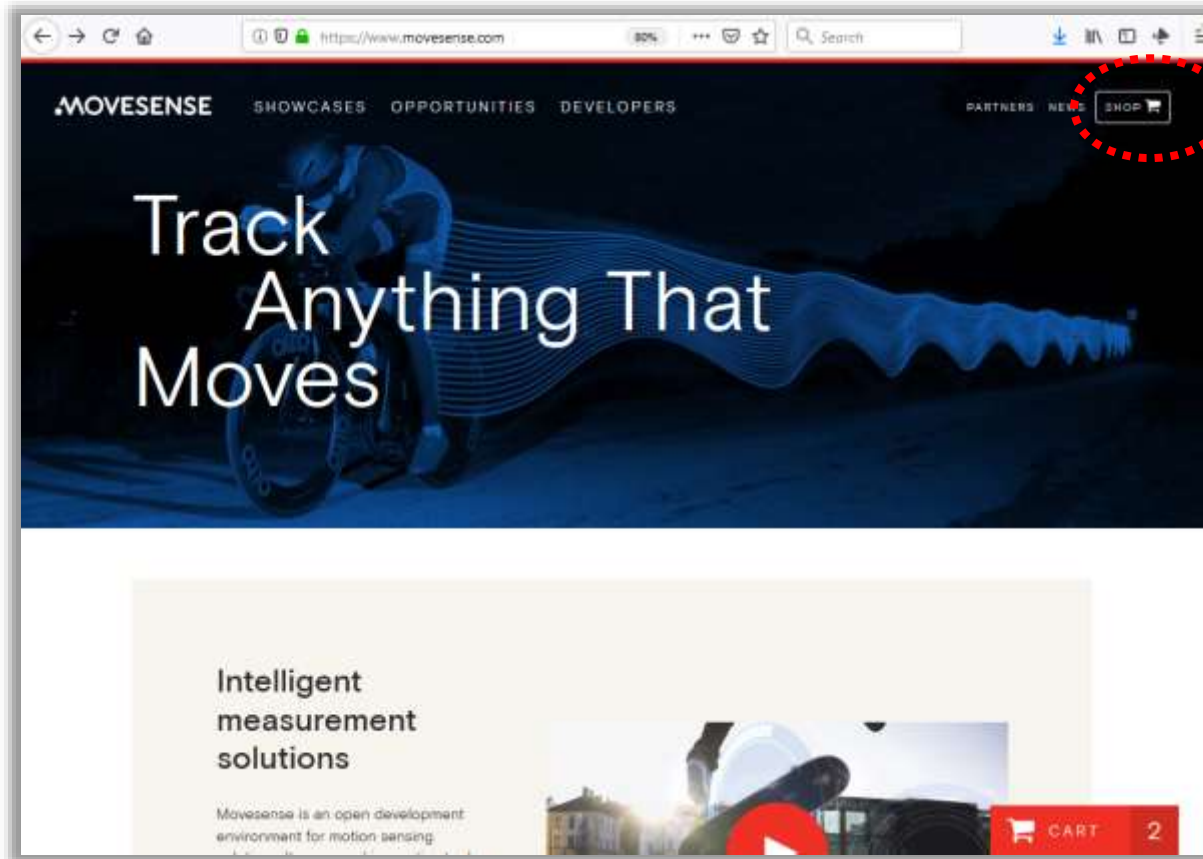
This example application demonstrates the use of accelerometer and subscribing to its data. After the subscription is activated, data will be received periodically. Each individual sample contains relative time stamp and corresponding acceleration value from the accelerometer.

Building and running

To build this sample application, specify its directory as the last argument to the build command:

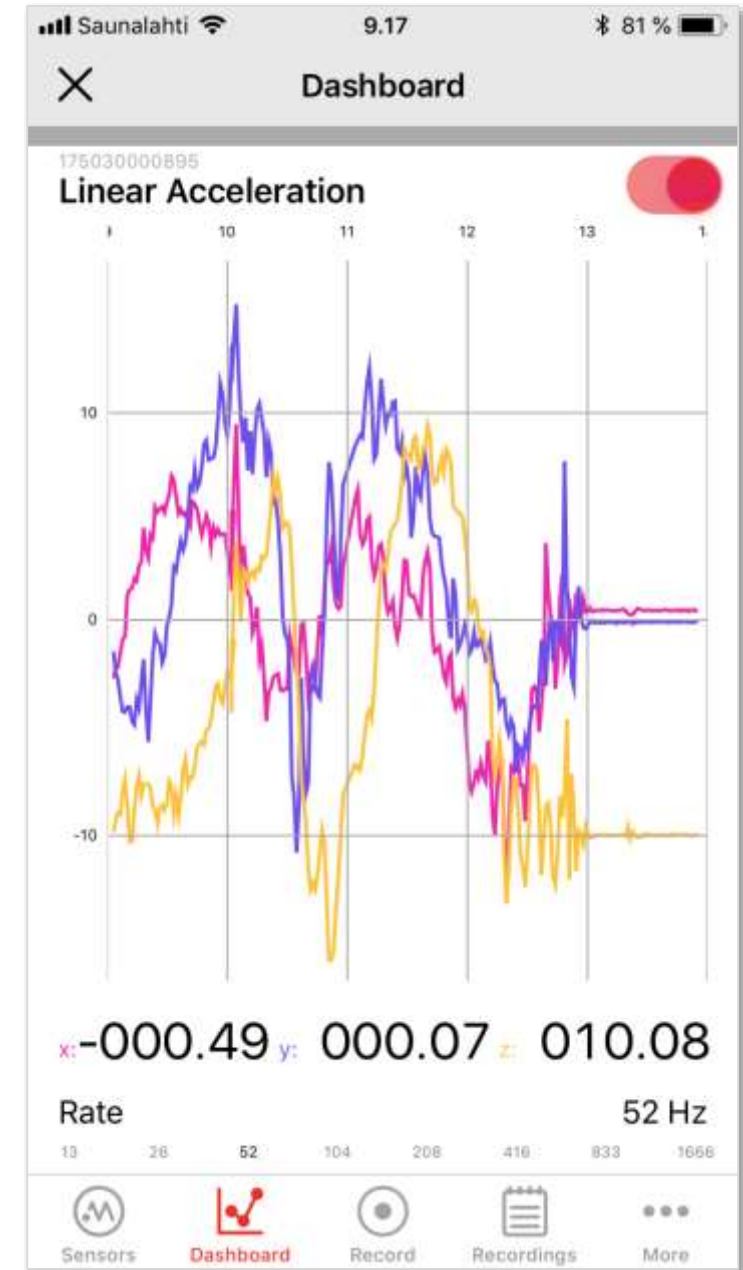
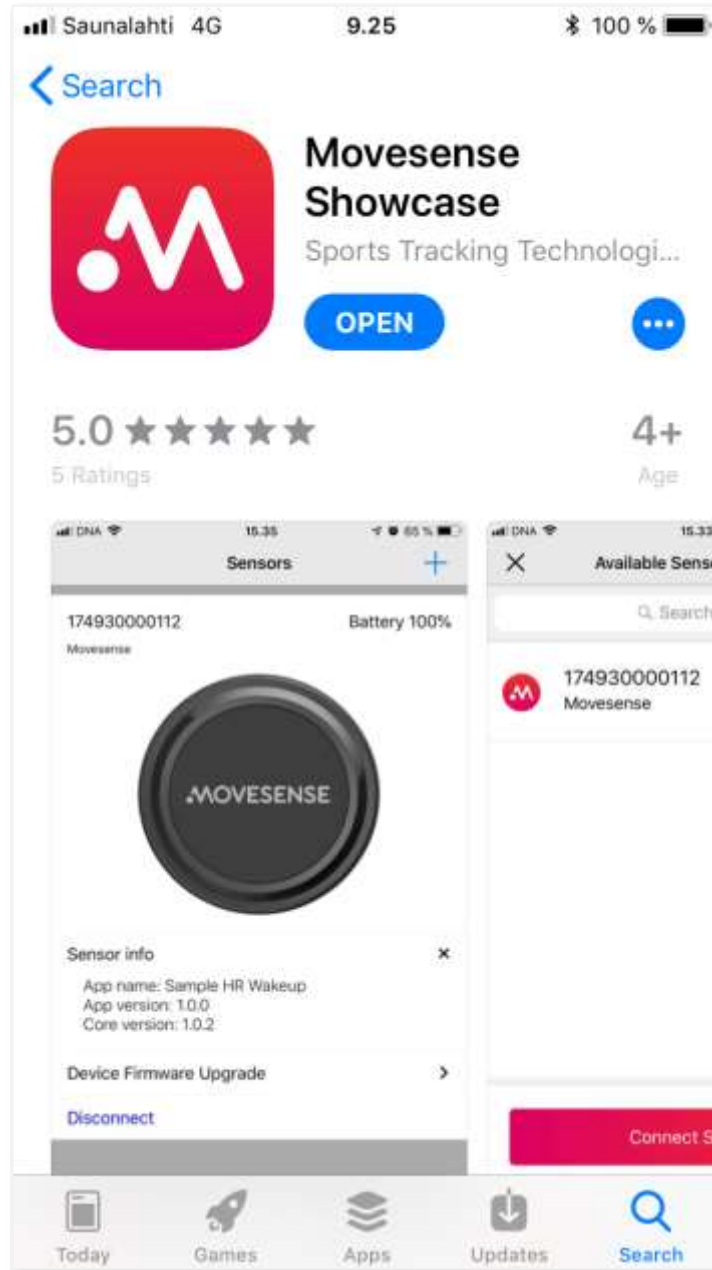
```
cmake -G Ninja -DMOVESENSE_CORE_LIBRARY=../MovesenseCoreLib/ -DCMAKE_TOOLCHAIN_FILE=../MovesenseCoreLib/
```

Movesense.com & Online Store



Movesense iOs Showcase App

Check it out &
rate it



Movesense Medical variant – coming soon



Movesense Medical

-ECG, HTR, R-R intervals

-Motion: acceleration, gyro, magnetometer

-Temperature

Use cases include

- Remote monitoring
- Arrhythmia detection
- Motion analysis
- ...





Project Examples

hard flip
fakie flip
trick: nollie flip
switch flip
pressure flip

Movesense Tracks Anything!



BEYOND
PULSE



KONECTSPEED



RUNTEQ

reimago[®]
ACTIVITY SENSOR FOR KIDS

EXSED



Players' real time heart rate on a live TV broadcast

Movesense on Finnish Squash championship finals

Interested? Contact: info@movesense.com



Players' real time heart rate on a live TV broadcast

Movesense on Finnish Squash championship finals

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