MEDICAL WEARABLE ENGINEERING

We engineer medical wearables, from sensor to app.



Kokoveda designs the electronics, firmware and mobile software behind body-worn health devices. One team for the whole device, so the signal stays right from the skin to the screen.

3
sensors in one patch

200
ECG samples per second

4
live signals on the phone

A4
true-scale ECG reports

What we do

Sensor hardware
Sensor and chip selection, schematics, PCB layout, power budget and battery design for small body-worn devices.

Embedded firmware
Sensor drivers, filtering, low-power modes and a robust Bluetooth LE link that keeps every sample.

Mobile apps
Live medical-style charts, pairing that just works, recordings, settings and guided electrode placement.

Signal processing
Heart rate, SpO_2, mains-noise filters and signal-quality checks, tested against recorded data.

Data and reports
Spreadsheet export, one-page A4 ECG reports and data formats for research teams or your cloud.

Prototype and bring-up
First boards brought to life, bench test tools and data from real people wearing the device.

How we work

一 Define
What to measure, who wears it, for how long, and what a good signal means.

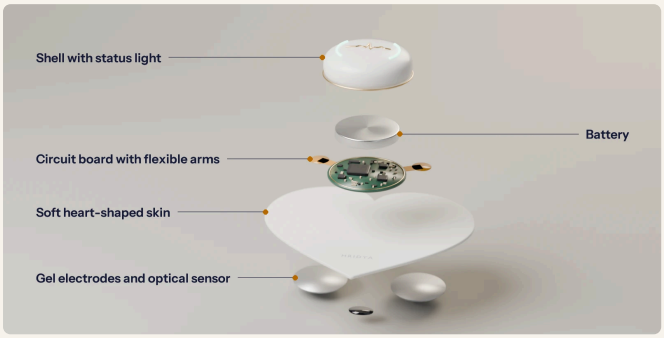
二 Prototype
Sensors chosen, board designed and first units running on the bench.

三 Firmware and app
Built together and checked end to end on real hardware.

四 Pilot and handover
Devices on real people. You get schematics, code and test data.

Hridya, our ECG and SpO₂ reference patch

A complete working system, sensors, firmware, signal processing and app, built as proof of what we do and a head start for your device. Companies can develop it with us into their own product.





Inside the patch

Processor and radio	Low-power processor with Bluetooth LE
ECG	Single lead, 200 samples per second
Pulse and SpO₂	Optical sensor, green, red and infrared
Motion	Accelerometer and gyroscope
App	Android: live charts, signal quality, recordings, A4 PDF reports

Ways to work with us

Feasibility sprint	Typically 2–4 weeks. First signals and a written plan with costs and risks.
Design project	Typically 3–6 months. Prototype to pilot units, paid by milestone.
Develop Hridya	Start from our working prototype and develop it into a device under your brand.
Pilot builds	Small batches for studies, with updates and support.

Standards we design toward

IEC 60601-1 electrical safety

IEC 62304 medical device software

ISO 13485 quality records

IEC 62366-1 usability

IEC 60601-1-2 electromagnetic compatibility

ISO 14971 risk management

ISO 10993 skin-contact materials

Radio Bluetooth, WPC, CE, FCC

Kokoveda is not a certification body. Hridya is a research device and is not certified. Product images are renders of the enclosure concept built around our working V0.2 prototype. Certification is carried out with your regulatory partner.

Have a device in mind?

Tell us what it should measure, who will wear it and where you are today. We reply with questions and a first plan.

kokoveda.netlify.app/#contact

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