

ニュースレターや通知、プロジェクトのおすすめを受信するには、メールアドレスを認証してください。

メールを再送

さがす はじめる

KICKSTARTER

検索



プロジェクトをバックしました プレッジ額 \$853

プレッジの管理

}}

お見逃しなく!

他のバックカーと共にその実現をサポートしましょう。

リワードを閲覧



3:25



3:25



Project We Love ウェアラブル端末 Reno, NV

EmotiBit: Wearable biometric sensing for any project!

An open-source (Arduino-driven) sensor for capturing high-quality emotional, physiological, and movement data that is 100% user-owned

¥1,801,129

の総プレッジ額 (¥1,633,134 中)

55

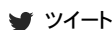
人のバックカー

29

日で締切



シェア



ツイート



メール

埋め込みコード

All or Nothing このプロジェクトは 2021年5月14日 (金曜) の23:32 UTC +09:00 までにゴールを達成した場合のみファンディングされます

キャンペーン

リワード

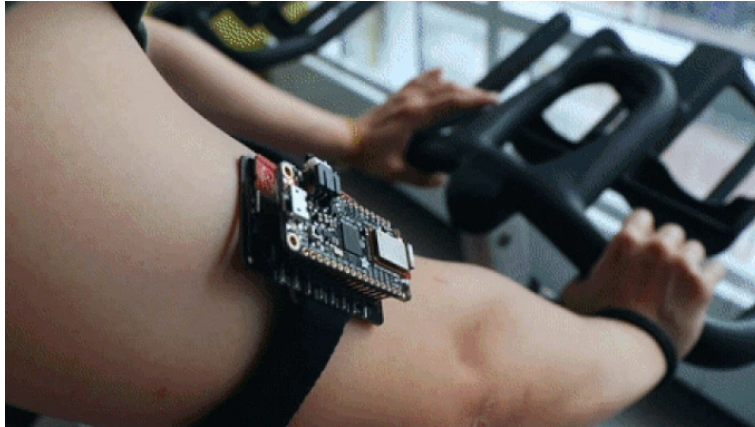
FAQ

アップデート ⁰

コメント ⁰

コミュニティ

ストーリー



EmotiBit

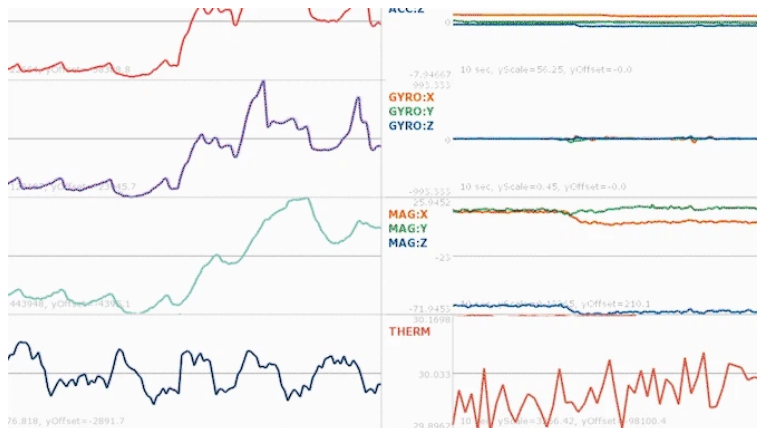
2プロジェクト・12バック
済

Wearable biometric
sensing for any project!
<https://www.emotibit.com>
/ もっとみる

プレッジ(支援)する

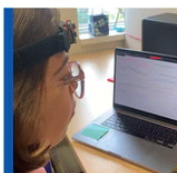
What is EmotiBit?

EmotiBit is a **wearable sensor** for capturing high-quality **emotional, physiological, and movement data**.



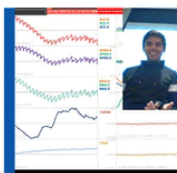
EmotiBit is **easy-to-use**, so you can quickly integrate it into a class project. It provides **scientifically-validated** sensing, making it an ideal tool for research.

Research



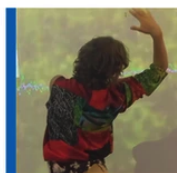
Study emotional, physiological, and movement signals.

Education



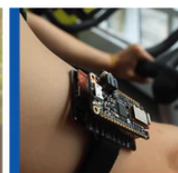
Teach your students about biometric signals.

Art + DIY



Stream live data. Open-source and customizable.

Personal Health



Learn about your stress, sleep, exercise, and more!

It's **open-source** (Arduino-compatible) and the data can be

選択中のプレッジ

US\$ 499 以上の
プレッジ
約 ¥54,329

EmotiBit Beta Bundle

Can't wait to get an EmotiBit into your hands (or wherever you plan to wear it)? Want to measure how EXCITED you are RIGHT NOW?

EmotiBit Beta units have been lovingly manufactured and tested (by us and Beta partners around the world) in small batches. Low-volume manufacturing costs a whole lot more per unit, but it means we can get them to you much faster! Beta units are ready to ship and we'll begin sending them out immediately after our campaign finishes!

It's a Rockin' & Researchin' Bundle on a rocket to your door!

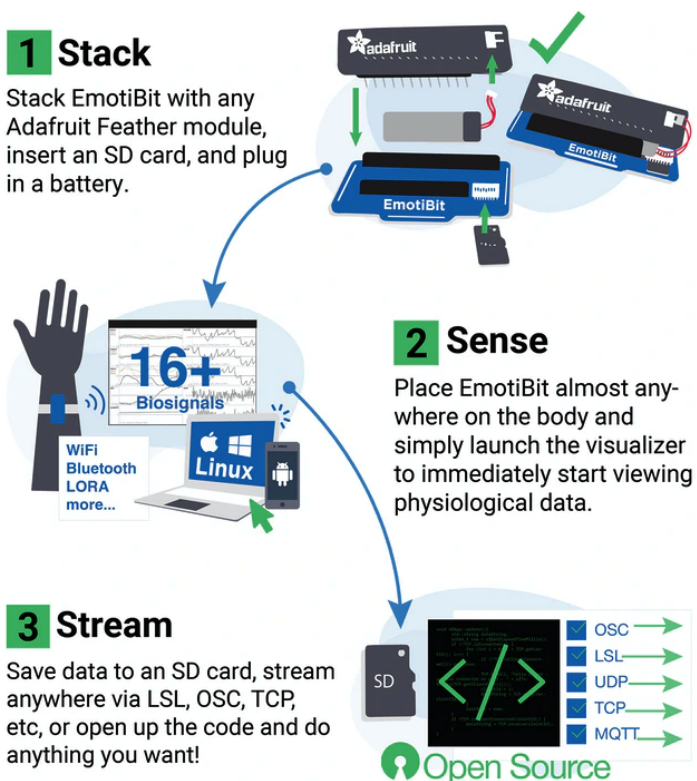
What comes in the bundle:

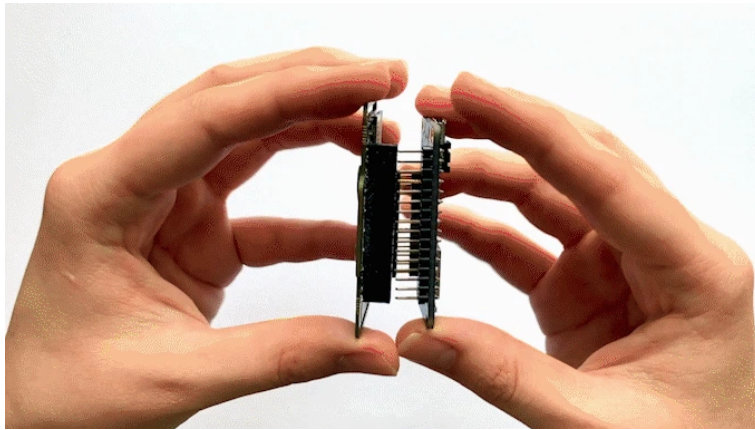
- EmotiBit MD
- Research-grade EmotiKit Addon
- Factory calibrated Adafruit Feather (for highest accuracy EDA measurements)

streamed wirelessly to any platform, enabling artists and makers to unlock new perspectives on biometric signals. The **data is 100% user-owned** and can be directly recorded to the **built-in SD card**, empowering anyone to explore their own health and wellness without reservations about where that data might end up.

EmotiBit is able to detect **16+ biometric signals** that are constantly traveling throughout our bodies, reflecting our moment by moment physiological and emotional changes. We believe that understanding these signals may be a key to unlock human potential in the 21st century and we're creating EmotiBit to empower personalized health and wellness, better understanding of emotions and empathy, and possibly even open the door to new capacity for communication and cognition.

EmotiBit is easy-to-use!

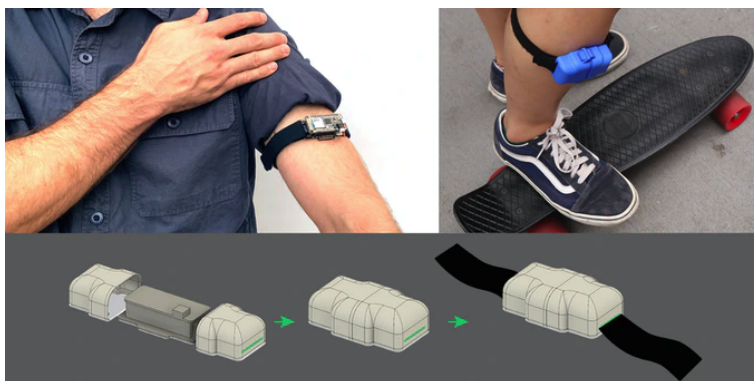




Wearable

Wear in any orientation, anywhere on the body, and start measuring biometric signals! Built-in slots make it easy to wear EmotiBit any way you want. Download a 3D case design from our [GitHub](#) - print it, modify it, share your designs!

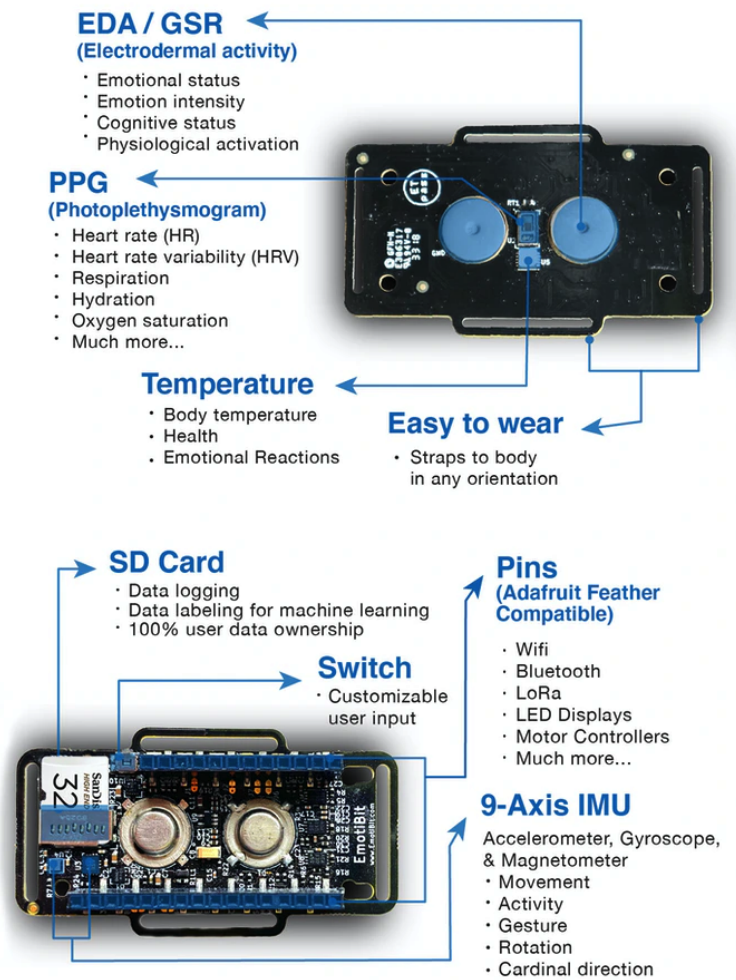
Learn more about sensing signals from anywhere on the body in [this blog post](#).



Download open-source 3D case designs and customize them to your specific needs.

Open-source

Packed with sensors in a wearable form-factor, EmotiBit is 100% customizable and hackable thanks to its open-source technology. EmotiBit is fully compatible with the **Adafruit Feather** ecosystem and **Arduino**. Easily tweak it to do anything you want!



We think open source principles are critical for doing science and bringing more voices into the biometric conversation! Read more in our recent [Frontiers in Computer Science](#) article [Brain-Computer Interfaces, Open Source and Democratizing the Future of Augmented Consciousness](#), co-written with researchers Guillermo Bernal and Pattie Maes at the MIT Media Lab.

16+ biometric data streams

With 16 data streams to play around with, there are infinite possibilities when it comes to creating projects with EmotiBit.

Data includes:

- PPG (3-wavelength) that can derive heart rate, heart rate variability, respiration, oxygen saturation, hydration and (we believe) much more!
- EDA / GSR (electrodermal activity / galvanic skin response) reflecting sympathetic nervous system responses that are

driven by cognitive and emotional arousal.

- 9-axis IMU (accel, gyro, mag) that can derive movements, activity, gesture, rotation, and cardinal direction.
- Body temperature that can be used to assess health as well as emotional reactions.



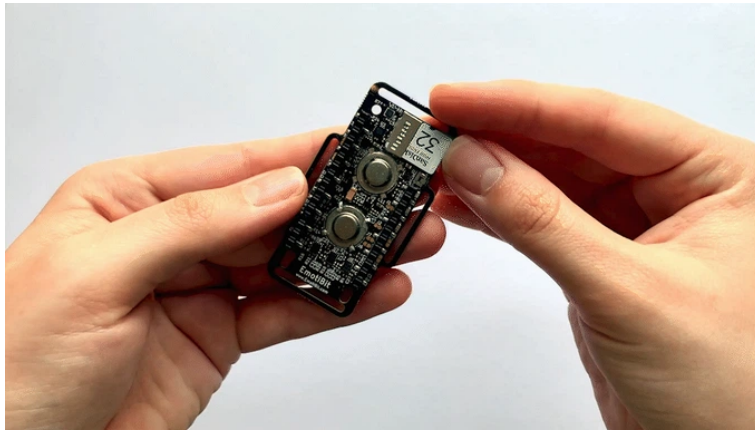
Our cross-platform visualizer (Mac, PC, Linux) is built on the **OpenFrameworks** creative-coding toolkit to make it easy to start streaming data and allow open-source customize-ability!



100% user-owned data

Your body, your data!

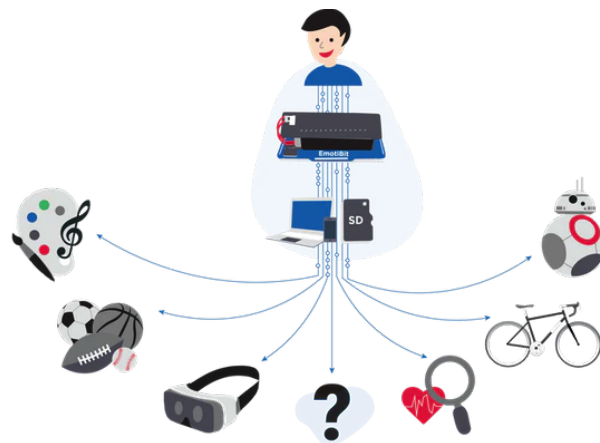
Want to learn more about your body and mind, but don't want to hand over the data to the largest corporations in history? EmotiBit data is 100% owned by the user. Raw data access enables peer-review without hidden proprietary data manipulation. Use an SD card to store, collect, import, and export your data anywhere.



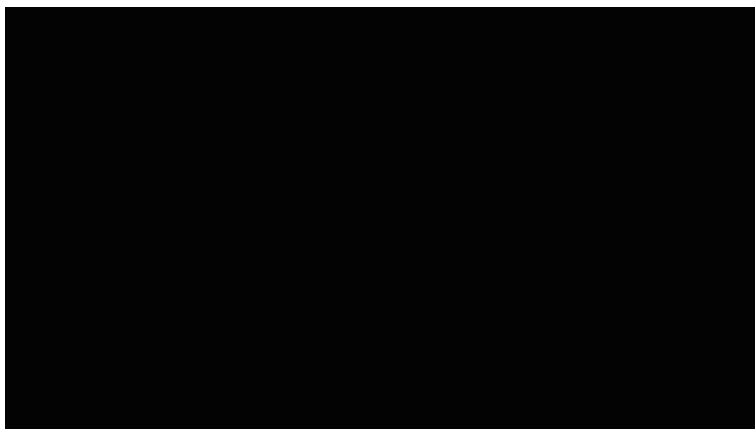
Flexible connectivity

Stream data wirelessly over any Adafruit Feather-enabled protocol.

Stream data via WiFi to our EmotiBitOscilloscope software and connect to any number of platforms via OSC, TCP, UDP, LSL, etc. Adapt the open-source firmware to send the data over Bluetooth, LoRa, 4G or any of the numerous wireless protocols in the Adafruit Feather ecosystem!



Stream data anywhere! Control anything!



Who is EmotiBit for?

Educators!

EmotiBit's affordability makes it the first of its kind to be attainable in classroom settings. See how professor Shaundra Daily PhD brought EmotiBit into her CS101 classroom at Duke University to teach her students about coding, bio-signals, health, electronics, data-science, ethics, and more!



Researchers!

Capturing high quality and scientifically validated data in an open-source ecosystem, EmotiBit is ideal for research. All the data collected with EmotiBit is 100% user-owned so you can avoid complicated IRB approvals and privacy considerations that slow down research with consumer-grade and other cloud-based biometric platforms. See what EmotiBit Beta partner and MIT Media Lab researcher, Guillermo Bernal, has to say about the value that EmotiBit can bring to biometric sensing and affective computing.

EmotiBit: A Powerful Tool for Resear...

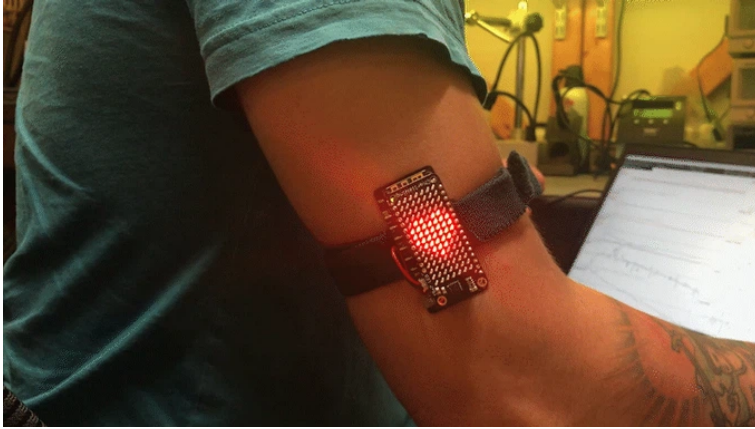


Makers & Artists!

EmotiBit is 100% hackable and programmable, making it the perfect tool for DIY projects and art pieces. Use the 16+ biosensors to control your project with your heartbeat, emotionality reactions, movement and more! See what Tyler Henry, Creative Technologist at Gallagher & Associates in New York City has to say after using EmotiBit.

EmotiBit: Unlocking Biometrics for M...





Wear your heartbeat on your sleeve!

Anyone!

From personal health to developing the next great invention, EmotiBit is perfect for any project and anyone because it's easy-to-use right out of the box! Use it to take your pulse, check your temperature, or explore more about your emotions! See what Dr. Kyle Lapidus MD, PhD has to say after bringing EmotiBit into his practice.

Personal Health with EmotiBit



Whether it's reducing stress, learning faster, being more empathetic, or just thinking about the world in a slightly different way, we believe understanding signals from the body will be transformative in the 21st century. And our dream is to make it easier for you to help create that future. If you've ever wondered about signals from the body, we're creating EmotiBit to unlock *your* ideas and *your* vision.

What makes EmotiBit different?

	Consumer Grade	Research Grade			Open Source
					
	FitBit / Apple Watch	Empatica E4	Shimmer	BIOPAC	EmotiBit
Price	\$150-750	\$1690	\$589 per sensor	\$10000+	\$199
Multiple Emotional Data Streams		✓	✓	✓	✓
Scientifically Validated		✓	✓	✓	✓
Data Streaming		✓	✓	✓	✓
Easy to Wear	✓	✓			✓
Integrated Sensors (No Wires)	✓	✓			✓
Built-in SD Card			✓		✓
Use Without Cloud or 3rd-party Platforms			✓	✓	✓
Wireless Options	Bluetooth	Bluetooth	Bluetooth	WiFi	WiFi, Bluetooth, LORA, more...
Arduino Compatibility					✓
Open-source					✓
9 Axis Motion Data Stream					✓

Comparing EmotiBit to other bio-sensor platforms

Rewards!

We're offering a number of different rewards to fit different budgets and biometric sensing needs. Help us bring EmotiBit to the world!

T-Shirts

EmotiBit T-Shirt \$25

"Your emotions make you human."
— Sabaa Tahir



EmotiBit Options

EmotiBit Emo \$199

- PPG Sensor (3-wavelength)
- EDA / GSR sensor (with AgCl snap electrodes)
- 9-axis IMU
- Temperature sensor

Best for: artists, students, teachers, DIYers, anyone on a tight budget



EmotiBit MD \$299

- Everything on EmotiBit Emo
- PLUS a medical-grade temperature sensor (thermopile)

Best for: researchers, athletes, medical professionals, health enthusiasts, others

EmotiKit Addons

Basic EmotiKit Addon \$59

Everything you need to start sensing signals from the body!

- Adafruit Feather
- 400mAh battery
- High-speed microSD card



Research-grade EmotiKit Addon \$125

Precision biometric experiment toolkit!

- Factory calibrated Adafruit Feather (for highest accuracy EDA measurements)
- 400mAh battery
- High-speed microSD card

** Please note that you will need an Adafruit Feather, battery, and microSD card to use EmotiBit

Research Bundle

Rockin' & Researchin' Bundle \$399 (\$25 discount)

Ready-to-go biometric experiment in a box!

- EmotiBit MD
- Research-grade EmotiKit Addon



Multi-Packs

EmotiBit Edu Pack

\$949 (\$83 discount)

Bring trans-disciplinary project-based education into your classroom!

- 4x EmotiBit Emo
- 4x Basic EmotiKit Addon



EmotiBit Research Pack

\$1499 (\$197 discount)

Jumpstart your biometric sensing research program!

- 4x EmotiBit MD
- 4x Research-grade EmotiKit Addon

Stretch Goals!

\$50K: Add derivative biometrics to EmotiBit data stream!

- Our list of derivative biometrics the EmotiBit dev roadmap is very long, but if we hit this stretch goal some of the immediate derivative metrics we'll develop are: heart rate (HR), oxygen saturation (SpO2), electrodermal response (EDR) amplitude, and EDR frequency.

\$75K: EmotiBit power optimization

- EmotiBit currently gets about 3.5 hours of battery live-streaming data and about 9 hours data-logging to the SD card. If we unlock this stretch goal, we'll dive into power optimization to keep the data flowing without charging or changing the battery.

\$100K: EmotiBit Android app

- We've already begun work on an Android App and if we unlock this stretch goal we'll build out our Android app to control and live-view data from EmotiBit!

\$200K: Add Bluetooth communication

- EmotiBit currently supports WiFi data streaming using Adafruit Feather MO WiFi as well as direct data recording onto the built-in microSD card slot. We don't expect it will be easy, but if we

unlock this stretch goal, we'll work tirelessly to add Bluetooth support to our hardware, firmware and software ecosystem and reach out to backers post-campaign to offer the appropriate Feather at no additional cost.

Tech specs

See all our [technical details and source code on github!](#)

- **Sensor sampling rates** (changeable)

- 25Hz - 9-axis IMU (accel, gyro, mag)
- 25Hz - PPG (3-wavelength)
- 15Hz - EDA / GSR
- 7.5Hz - Temperature

- **Size**

- 2.4in (6.1cm) length
- 1in (2.65cm) width
- 3/4in (2cm) height

- **Platforms**

- Windows
- Mac
- Linux
- *Stretch goal: Android app*

- **Battery life**

- 2.5 - 4 hours live-streaming
- 6 - 9 hours data-logging
- *Stretch goal: power optimization*

- **User-owned data**

- 100% raw data + derivative metrics

- **Wireless protocols**

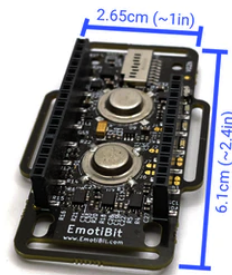
- WiFi
- *Stretch goal: add Bluetooth capability*
- Also possible from Adafruit: LoRa, 4G

- **Time-syncing with other devices**

- Typically <10msec (network dependent)

- **Open source**

- FW, SW, HW schematics
- Arduino and Adafruit Feather Ecosystem compatible



Dream big with us!

Our vision is to democratize biometric sensing by creating a research-grade sensor that's wearable, low-cost, open-source and easy to start collecting physiological data from nearly anywhere on the body. Signals are constantly traveling through our bodies, reflecting our changes in mental, emotional and physical state. We believe that interpreting these signals will help us understand ourselves and one another better.

Building a Biometric Ecosystem

<https://github.com/emotibit>

Streaming Data

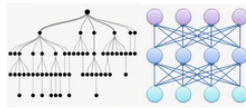


EmotiBit

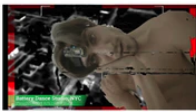
Data Science Tools



Machine Learning Tools



New Conversations



New Applications



New Ideas



Meet the team



EmotiBit is being developed by the engineers and designers at [Connected Future Labs](#), an R&D engineering company with over 25 years combined experience sensing signals from the body. The team has brought biometrics to Fortune 500 companies and helped launch startups like [CTRL-Labs](#) (acquired by Facebook).



Connected Future Labs helps clients bring biometric sensing products to the world!

We believe information and ideas multiply and that biometric sensing and affective computing needs more access, more conversations and more perspectives to unlock health, wellness, creativity, expression, communication and new realities.

We've shipped to Alpha and Beta partners around the world!

We've shipped EmotiBits to educators, artists, makers, health enthusiasts, researchers, creative-technologists, sports trainers, film-makers, psychiatrists, startups and Fortune 500 companies across the globe!



Suzanne Dikker Ph.D.
NYU



Prof. Linda Paquette
UQAC



LoVid Studio
New York City

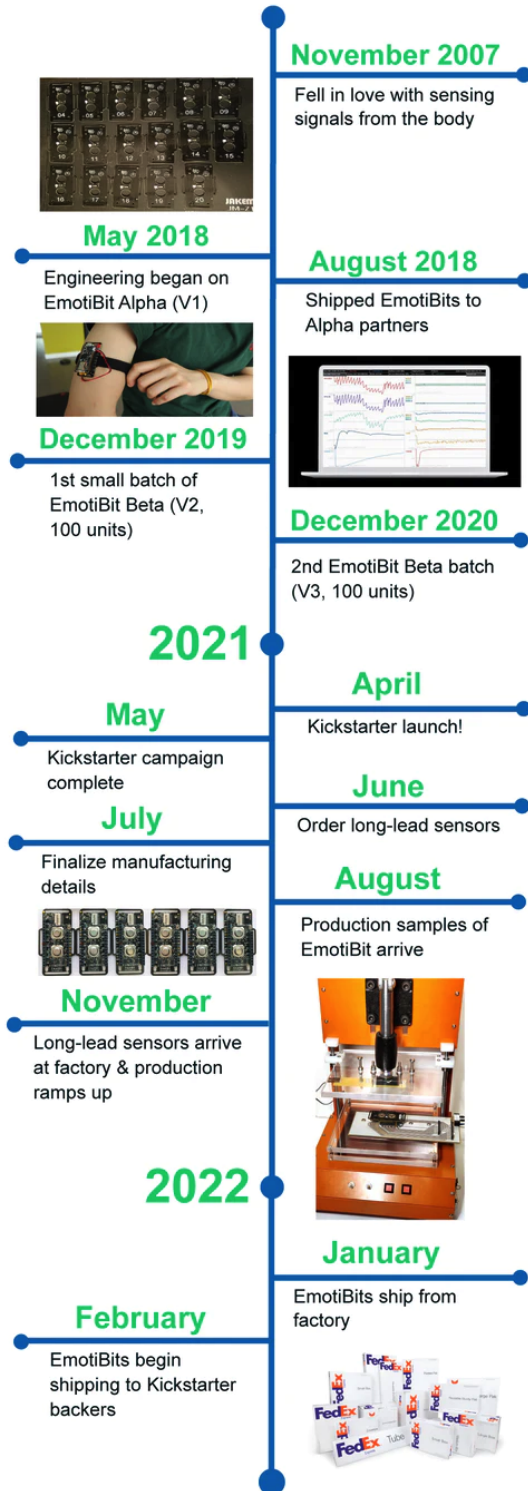


Prof. Ghyslain Gagnon
ÉTS Montreal



We want to see what YOU will do with biometric data!!!

Production & timeline



Shipping & delivery

International deliveries will be sent duty unpaid. This means that if you are ordering outside the US, you may owe duty, VAT, or other taxes, based on your local regulations.

We will reach out to backers to identify any organization/institution VAT/tax ID to minimize these duties, but please do not that these taxes legally have to be paid when you

receive the package, or it may be returned to us or even destroyed



THANK YOU SO MUCH!!!

♥♥♥ We could not have made it to this point without the amazing faith and support of our Alpha and Beta partners, friends & family that have listened to us wax endlessly about the future of biometric signals, and the unbelievably knowledgeable and tirelessly helpful folks at Launch Studio. ♥♥♥



リスクと課題

We've worked hard creating EmotiBit and our Alpha and Beta partners have helped us sort out many problems along the way. Due to COVID-19 and multiple silicon wafer factory fires, there is currently a global shortage of electronic components that could potentially extend delivery dates into spring 2022. To mitigate this risk, Connected Future Labs has developed relationships with vetted manufacturing and fulfillment partners, and we have already begun sourcing parts through multiple channels to ensure that we can produce EmotiBits reliably at scale. And now we need your support to help scale up production and have negotiating power going into manufacturing and parts sourcing!

[Kickstarter上の説明責任について詳しく知る](#)

環境への取り組み

ぜひ [Kickstarterの環境リソースセンターにアクセス](#) して、Kickstarter がどのようにして持続可能なプロジェクトを促進しているか、その様子をチェックしてみてください。

長持ちするデザイン

We've carefully designed EmotiBit and chosen the pinouts to be maximally compatible with the Adafruit Feather ecosystem. Every pin we utilized to capture biometric signals was chosen for flexibility to use a multitude of Feathers and Feather Wings. So when a new microprocessor or auxiliary module comes out, it's very likely that it will be pin-for-pin compatible with the EmotiBit you already have.

再利用可能性とリサイクル可能性

EmotiBit uses simple and mostly recyclable packaging with only a minimal amount of static-dissipating plastics to ensure EmotiBits arrive fully working and ready to sense signals from the body.

持続可能な材料

RoHS

環境に優しい工場

EmotiBit's factory has an established record of environmental responsibility and fair employment practices.

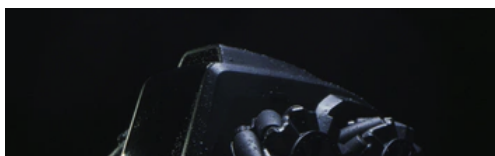
Sustainable Distribution

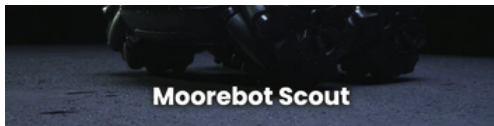
We are working with a reputable distributor with experience shipping effectively and efficiently around the world.

このプロジェクトに関して質問がある?[FAQ](#)

[このプロジェクトを Kickstarter に報告する](#)

[こちらもおすすめ](#) [もっとプロジェクトをさがす](#) >





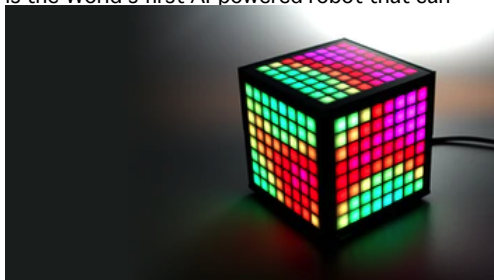
Moorebot Scout

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Scout: The Tiny AI-powered Autonomous Mobile Robot for home

Tiny in size but with huge intelligent power, Scout is the World's first AI-powered robot that can



お気に入りに登録



LumiCube: An LED cube kit for the Raspberry Pi

The perfect playground for hundreds of creations

By [Abstract Foundry](#)

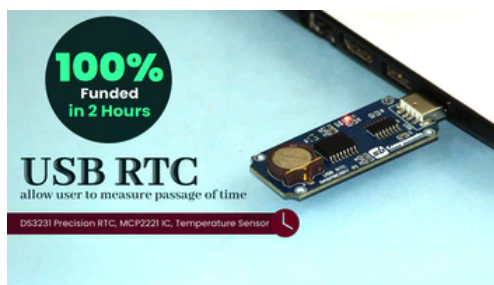


お気に入りに登録



Tundra Tracker

A Smaller, Sleeker, Better solution for Full Body Tracking in SteamVR



お気に入りに登録



USB RTC for Raspberry Pi : Now Time is in your Hands

MCP2221 USB-I2C Converter | DS3231 High-Precision RTC Chip | TCXO | Inbuilt-Temperature Sensor | Cross-Platform Compatibility

By [Amrit Singh](#)

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プロフィール


- Kickstarterについて
- チャーター
- 統計
- プレス
- 採用情報

サポート

- ヘルプセンター
- Kickstarterのルール
- クリエイターリソース
- パトロン
- ブランドアセット

さらに見る

- ニュースレター
- Kickstarter Magazine
- The Creative Independent
- モバイルアプリ
- リサーチ

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日本語 ▼ ¥ Japanese Yen (JPY) ▼

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