

Accessible motion capture, tailored to your specific needs

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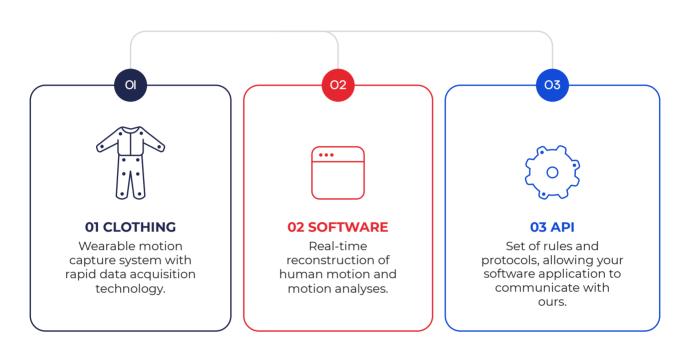
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Motion capture technology has revolutionized the way we create and experience digital content, bridging the gap between the physical and virtual worlds and enabling endless possibilities for storytelling, gaming, and beyond.

#### **ABOUT US**

We are a /mart Wearable Technology company, aiming to ease movement analysis and recording in real-time across various platforms and use cases. The overall technology consists of three main parts.



### How does our system work?



### Key Components



#### 01 CLOTHING

Two-piece stretchable and washable clothing with integrated sensors.



#### **02 IMU SENSORS**

The coin-sized IMU sensor nodes are embedded in clothing and are connected using wired communication.



## 03 WIRED COMMUNICATION

There are 18 sensors, but the number of sensors used can be changed and adjusted for different application requirements, like motion recording for sports, metaverse, military, etc.



## 04 PORTABLE DEVICE

Data is sent wirelessly via Bluetooth low energy protocol to a portable device (smartphone, tablet) or personal computer for processing and feedback.



## 05 LOCAL PROCESSING

Data is gathered from sensors to the master board via wires using custom SPI protocol.



## 06 AVATAR RECONSTRUCTION

Python Library for integration in Unity applications and avatar reconstruction.

### Where to Use Motion Capture?

#### **HEALTHCARE**

Motion capture wearable to monitor, record, optimize and analyze a person's exercises, rehabilitation, and health.

#### **GOVERNMENT**

Motion capture wearable to help monitoring center to monitor and analyze first responders and military personnel's health in dangerous environments, such as battlefields, burning buildings, etc.

#### **ENTERTAINMENT**

Motion capture wearable to create real-time, personalized avatars as a digital twin to then be implemented in Metaverse, games, and online fashion.

### How are we different?

# FAST DATA TRANSFER

Real-time low-energy motion reconstruction starting from 50 fps.



#### **VALUABLE DATA**

Movement analysis and 360° visualization, including a comparison of movements from multiple people.



#### **EASY TO CHARGE**

Minimized wireless interference as opposed to multiple wireless sensor nodes – meaning, you don't have to charge each sensor separately, and the setup is faster.



#### **FAST SETUP**

All the sensors are fixed in washable clothing, so it's not complicated to put the apparel on and wear it. It takes less than 3 minutes to set everything up.

Separate sensors don't need to be attached or charged individually.



#### WEAR EVERYWHERE, LITERALLY

We are fully mobile and not affected by the environment, lighting, etc. thus no external setup is needed, such as cameras, beacons, etc.



### Let's Collaborate

Our team of experts is dedicated to helping businesses and organizations explore the potential of new technologies and solutions. Whether you're looking to validate an idea, test a hypothesis, or simply explore the feasibility of a new product or system, we are here to help. Here's overall steps to get started on POC project:

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#### **GET IN TOUCH**

Connect with our team to express your interest in conducting a POC with our motion capture clothing technology.

## **DEFINE YOUR OBJECTIVES**

Clearly outline your goals and objectives for the POC so that we can help you achieve the desired results.

## SELECT YOUR SOLUTION

Based on your objectives, our team will suggest the best motion capture clothing technology solution to test during the POC.

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#### **ANALYZE RESULTS**

Upon completion of the POC, our team will analyze the results and provide you with a comprehensive report.

#### **CONDUCT THE POC**

Our team will assist you in testing the selected motion capture clothing technology solution and collecting data according to the agreed-upon scope and timeline.

## DETERMINE SCOPE AND TIMELINE

Work with us to establish the scope of the POC, including which features and functionalities will be tested, and set a clear timeline for completion.

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### MAKE AN INFORMED DECISION

Based on the results of the POC, you can make an informed decision on whether to proceed with implementing the motion capture clothing technology solution on a larger scale or explore other options.

### IMPLEMENTATION AND SUPPORT

If you decide to proceed with implementing technology on a larger scale, our team will be there to assist with the implementation and provide ongoing support as needed. We are here to help you achieve your goals and ensure your success.

