



Wearable Technology



What is wearable technology?

- ◆ Wearable Technology simply are Smart devices that you wear.
- ◆ Wearable Technology are electronic devices with micro-controllers that are worn close to or on the surface of the skin.
- ◆ They are able to detect, analyze, and transmit information about the properties and vital signs of the wearer.
- ◆ They commonly track information like movement, steps, and heart rate.

What types of wearable technology can you name?

For example a Smart Watch, Google glasses, Hearing Aids

WEARABLE TECHNOLOGY - INDUSTRY

The two main industries within the wearable technology market that are the most common are Smart Watches and Activity Trackers

ACTIVITY TRACKERS

Wearable devices such as activity trackers are a mixture of technology and incorporate components such as electronics, software, sensors, and connectivity which enable objects to exchange data (including data quality) through blue-tooth or the internet with an owner, an organization or company, a manufacturer, operator, or other connected devices; without requiring human intervention.

Activity Trackers are common for fitness and examples of wearable technology trackers in fitness and sport include accelerometers, pedometers, and GPS's.

These can be used to measure an athlete's energy expenditure and movement pattern.



YES IT REALLY EXISTS

Odd Wearable Technology

In 2008, Ilya Fridman incorporated a hidden Bluetooth microphone into a pair of earrings.

In 2014, graduate students from the Tisch School of Arts in New York designed a hoodie that sent programmed text messages triggered by gesture movements

The US military employs headgear with displays for soldiers using a technology called holographic optics.

In 2010, Google started developing prototypes of its optical head-mounted display Google Glass, which went into customer beta in March 2013.

In July 2014 a smart technology footwear was introduced in Hyderabad, India. The shoe insoles are connected to a smartphone application that uses Google Maps, and vibrate to tell users when and where to turn to reach their destination.

SMART WATCH

History of Wearable Technology

Think wearable technology is a new thing? No, its roots go back hundreds of years.

Take the SMART watch as an example:

- 1500 Peter Henlein, the German inventor
Invented necklaces that incorporated small watches in them
- 1600 Fashionable Men
Began to commonly carry pocket watches in their waistcoats
- 1600 Woman
Began to wear watches similar to wristwatches as bracelets
- 1904 Alberto Santos-Dumont, the Aviator
Pioneered the use of the wristwatch as it meant his hands unoccupied when flying
- 1980 The Calculator Watch becomes a fashion trend
- 2013 The wristwatch becomes digitized and a mini android phone and is called the SMART watch
- 2015 Apple Watch is launched by Apple



ACTIVITY HOW TO:

Brainstorm the following question in a small group then come together as a class to discuss results

ACTIVITY QUESTION:

What future growth do you think there is for wearable technology, what type of industries and products do you think will grow in the future of wearable technology?

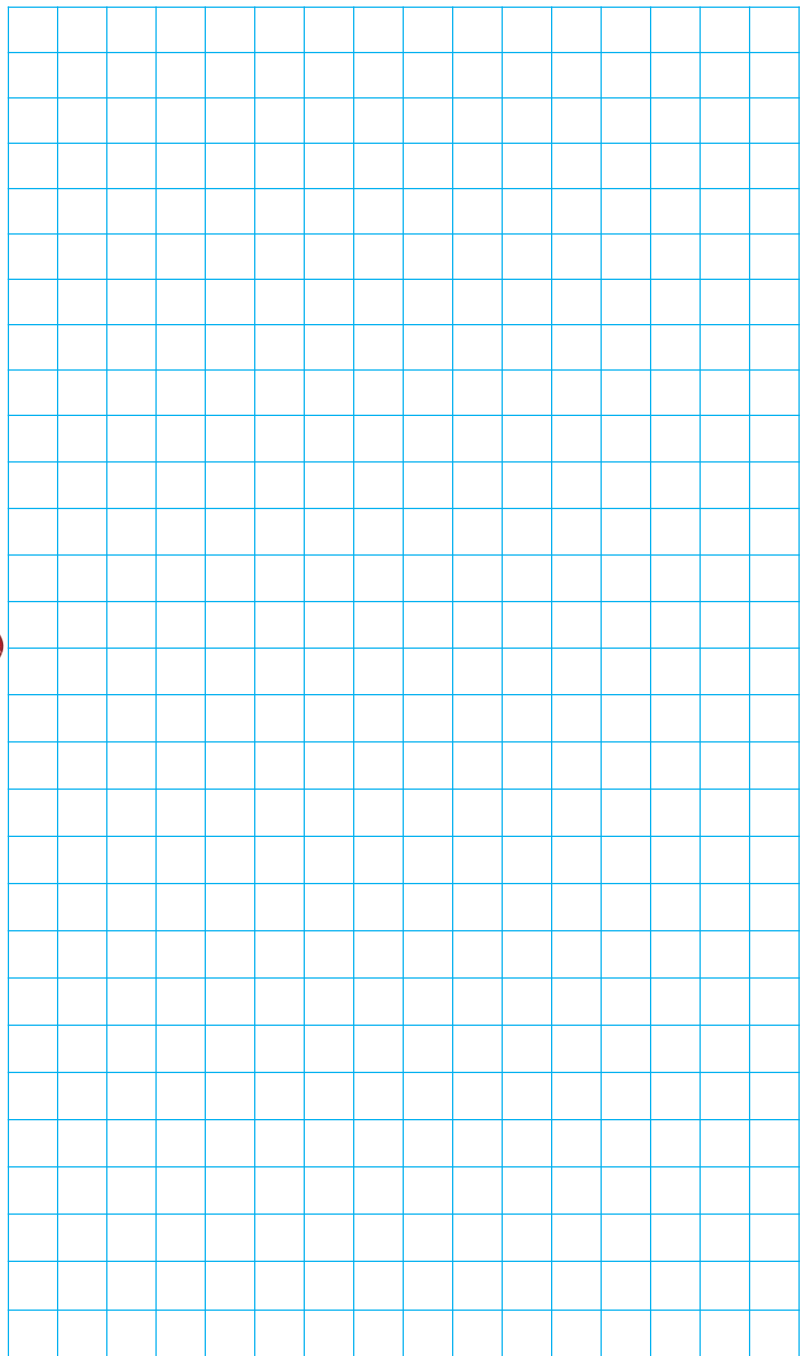


ACTIVITY:

Brainstorm, design and invent a drawing of your idea for a unique wearable technology, how would it be worn, what would it do, how would it be useful.

Our Group _____
Our Invention _____
We call it the _____
What it can do _____

My Blueprint Picture



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Brainstorm the following question in a small group then come together as a class to discuss results

ACTIVITY QUESTION:

What wearable technology could be useful in the healthcare and medical industries and how would it make a difference?

