

# Electrical work made safe and simple





ELECTRICAL WORK MADE SAFE AND SIMPLE

The first intelligent wearable glove used for working with electrics, they aim to improve workload efficiency, reduce injuries, reduce the number of tools needed, but most of all reduce injury numbers for professionals, DIY enthusiasts, and chore completionists.



## THE APP

The application provides the user with in-depth information when the user detects a live wire. Allows the user to change the settings of the glove to suit their situation and view the battery level of the glove. Speech assist can be enabled to voice the information the glove detects allowing the user to work and hear the information.

## AIMS

### SAFE

There are around 350,000 serious injuries due to electrics a year and working with electrics is in the top 10 dangerous jobs. EMITTS hopes to reduce this number dramatically by providing safety and in-depth knowledge to the users.

## FEATURES



Allows users to pick up small wires and screws with ease



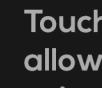
Illuminates the glove so the user can see in dark places



Sends a charge out of the fingertips to test electronics



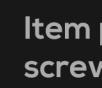
Detects wires in the walls and displays them to the user



Touchscreen accessibility allows for easy use when using the Emitts application.



Two layers of neoprene to protect the user from electrocution and hot objects.



Item pouch to hold small screws or other small objects for easy accessibility and storage.

### SIMPLE

Reduce the number of tools that are required when working with electrics. By providing numerous technology for the convenience of one glove this helps to reduce the number of devices needed to do electrical work.

# Social benefit



## Making electrical work **safe** and **simple**



### Current issue

- 350,00 serious injuries a year
- Electricians being in the top 10 dangerous jobs



### How EMITTS reduces this

- Protects the user from electrical and heat injuries.
- The torch feature allows for the user to work in the dark so no more accidents due to poor lighting.
- Wire detection will notify the user when they are about to touch a live wire.
- The application provides the user with helpful guides and knowledge about working with electrics.

### User benefits



#### Professionals

Employees equipped with wearable technology reported an **8.5% increase** in productivity and a **3.5% increase** in job satisfaction

Emitts protect them every day whilst they do their job. Reduces the number of tools they will need to carry as Emitts puts numerous tools in the **convenience of one glove**.

Advanced mode provides the **power of touch** that allows the user to see the different types of wires and their voltages by just touching a wire with the glove.



#### DIY Enthusiasts

**Increases knowledge** when working with electrics. Allows them to do other DIY tasks and still use the glove to complete the task more efficiently.

Applications and Emitts give them a **better understanding** of how to work with electrics safely.

Provides them with numerous tools in **one convenient glove**.



#### Chore Completionists

Allows for the user to know they are **safe** when working with electrics. The **numerous features and application** will allow for them to become more knowledgeable about working with electrics.

They can use the glove for other household tasks but it also has the **innovative technologies** in the Emitt if they need the features.

# Research and key insights



Wristwear makes up for around

**80%**  
of wearable shipments



Cited privacy as their main wearable tech concern

Electricians in top

**1**  
most dangerous jobs

dangerous  
jobs



The market is  
**OVERSATURATED**  
with sport and fitness trackers

Electrical accidents cause over

**350,000**  
serious injuries per year

**1**  
in  
**6**  
currently own and use wearable



DO

- make electrical work safer
- make a new and original product
- take inspiration from existing tech



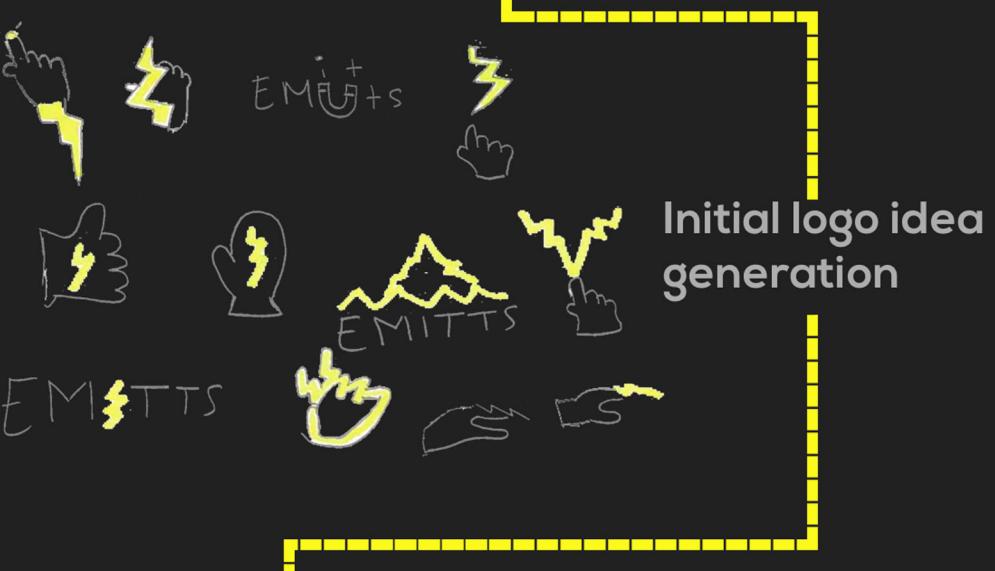
DON'T

- make a wristbased wearable
- make a sport or fitness tracker
- impede user privacy

# Design Thinking

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## Brand



Initial logo idea generation

Developing / computerised logo ideas



Finalised logo

Colour guidelines

#adadad

#fcf91d

#212121

## Glove



Initial, unedited Emitt glove

Prototype using paper and sellotape



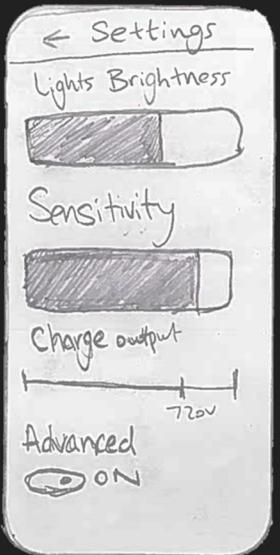
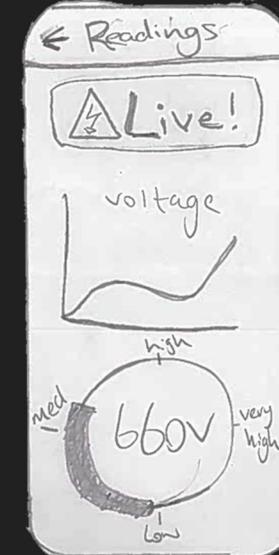
Final prototype using paper and velcro

Final glove hero images



## App

Initial Emitt application wireframes

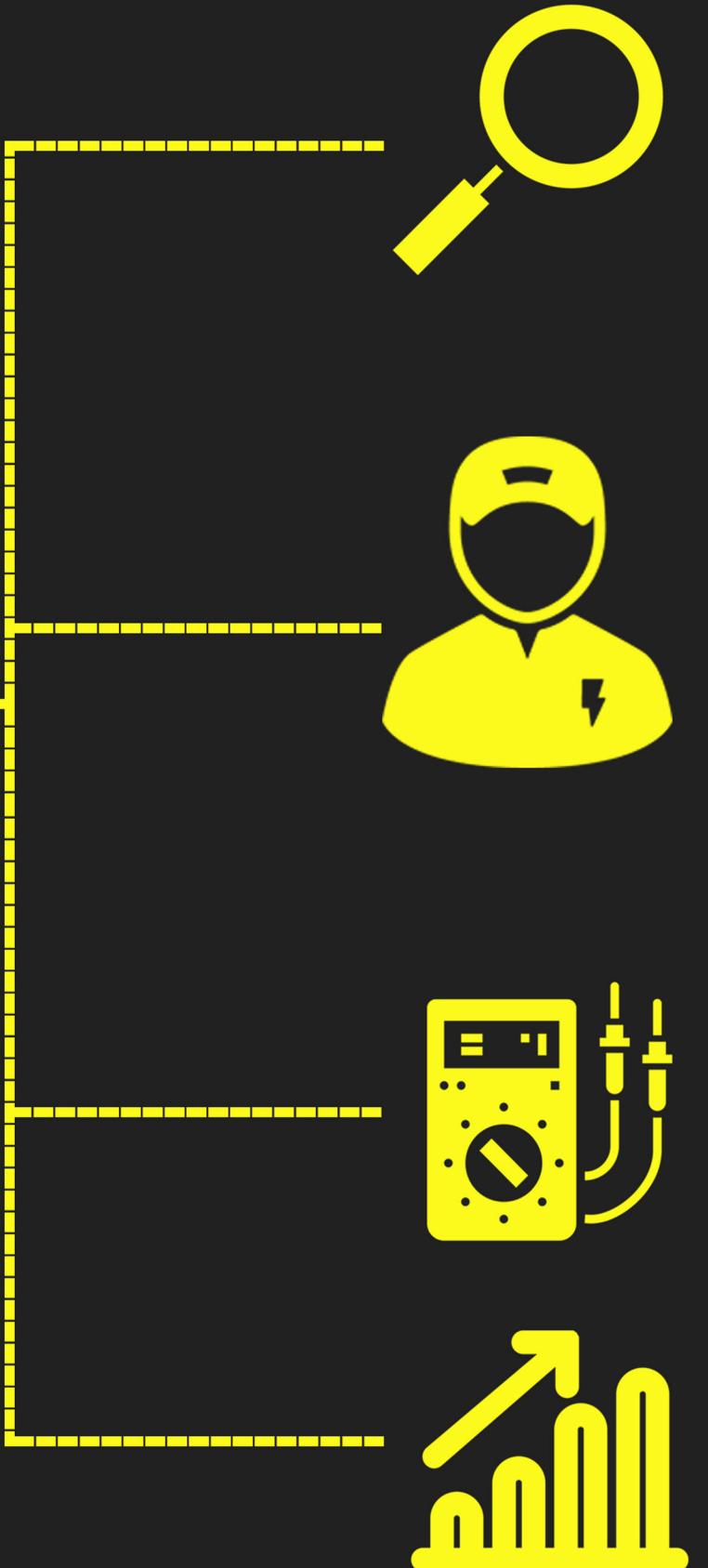


Finalised Emitt application screens



# Commercial Awareness

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We have **spotted a valid gap in the market** to capitalise on. There are few smart wearables available in this area currently and what is available is of low use and function. We would aim to **dominate and lead the wearable electrical market**.

We have picked **3 main users**: the professional, the DIY and the chore completionist. Despite being specific to an industry our product **has the capacity to be sold commercially to a general market**. A professional electrician of 20 years said they would "**pay up to £100 for the product**" which is a good price point.

Our wearable **combines the uses of dated electrical equipment** which are still used today, showing their usefulness. We're updating them and **placing them all in one, convenient device**.

Growth in the **wearables market** is expected to increase 35% by 2019. We could be a part of that much-anticipated growth.