HANDYNAV-Haptic Smart Gloves

Our mission is to promote cycling as a form of transport by making it more accessible and safe, through lighting and navigation systems, that are non-invasive and enhance the riders experience.

**Problem:** Accessibility and Safety
- Cyclists often distracted while listening to or looking at directions
- Difficult to see hand turning signals in the dark

50% of our shareholders don't cycle because it is "too dangerous" survey carried out for Nav'15th 2020

**Solution:**
- Gloves that give directions through vibration pulses
- Gloves that have indicator lights

- Innovative
- Allows cyclists to focus on the road and surrounding traffic
- Increases cyclist visibility
- Gloves portable and can be used by anyone
- Signalling communicated in a more obvious way

**Infographic of use**

1. Enter Destination in HandyNav app on Phone
2. Put on Gloves
3. Haptic Feedback as approach turn. Indicator Lights turn on.
4. Indicator Lights on palm and back of hand until turn completed.

**Final Prototype**

**Component Housing**

**HandyNav**

**HandyNav App**

**Real Circuit**

**Schematic**