

Trace

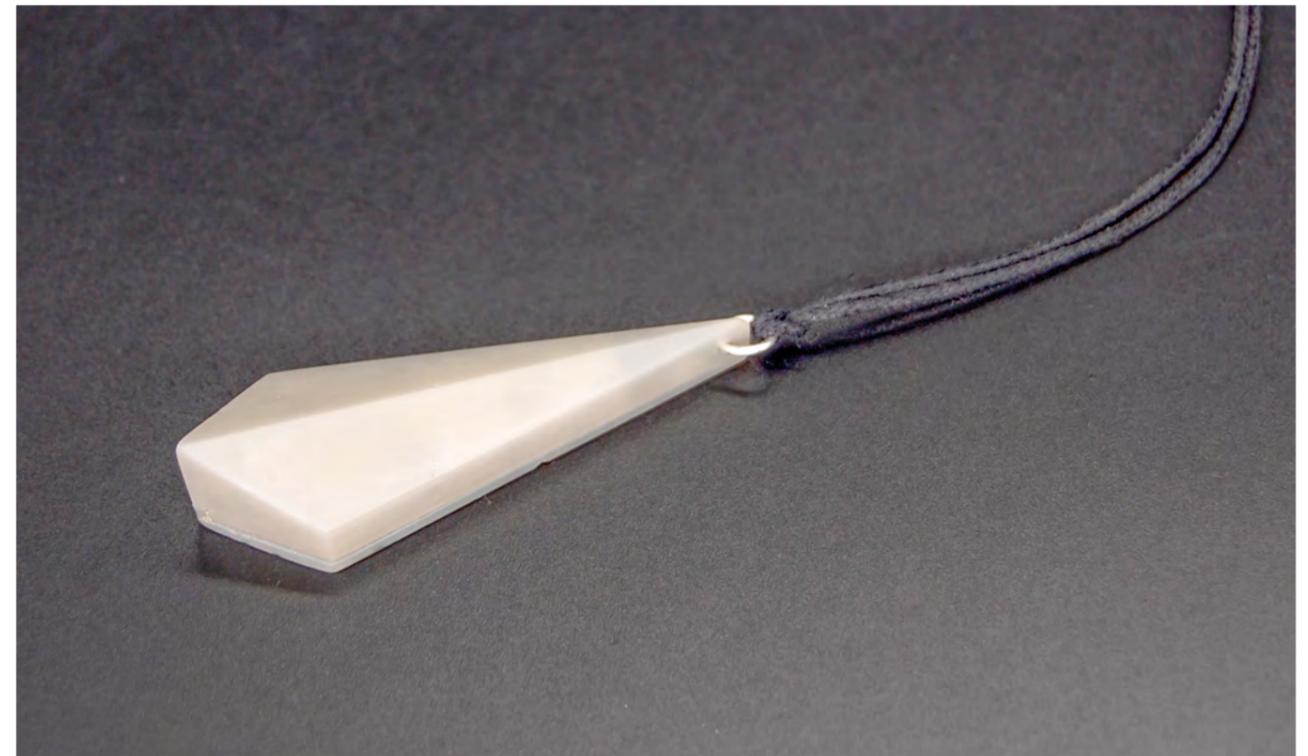


COLLECT MOMENTS

"IdemoLab, DELTA is a design studio full of hardware prototype engineers: we bridge the gap between technology and design. We focus on the important early stages of the design process and strive to create meaningful experiences for users and customers. With Jewellery of Tomorrow, our goal was to explore how the sensors we use in our work, could be merged with jewellery to create Meaningful Jewellery Devices. As DELTA turns 75 this year, we are excited to see what prospects the future brings when collaborating across domains to explore new uses of technology. With this in mind, we can confidently say that the students at KEA have done an incredible job to both use intriguing sensors, and to think about the experience of the wearer and those around them in a longer term perspective, two values we hold close to our hearts in our work at IdemoLab." - Vanessa Carpenter



Trace



TRACE is a necklace with a built in GPS, which translates data collected during a journey into physical heirlooms, allowing you to share experiences with those you love or reflect on memories with the people who have shared the journey with you.

TRACE TEAM

TRACE believes travel has its power to improve our lives. We want to keep that 'good feeling' within the traveller's mind and help them to go through life obstacles they sometimes bump into.

TRACE's vision is to create a complete experience for the users. With TRACE, you can share your experience of a memorable journey with your loved ones. In addition, we design a custom-made jewellery from your collected special moments. We aim to create an emotional, timeless jewellery collection with technology in mind and help you to preserve your precious moments.



HERINE TSUI
BUSINESS AND TASK MANAGER
HERINETSUI@GMAIL.COM



SAMANTHA ANAHATA-HANSON
MEDIA AND PR MANAGER
SGAIAAH@GMAIL.COM



JOLAN VAN DUFFELEN
PROTOTYPE AND MATERIAL MANAGER
JOLANVANDUFFELEN@YAHOO.COM

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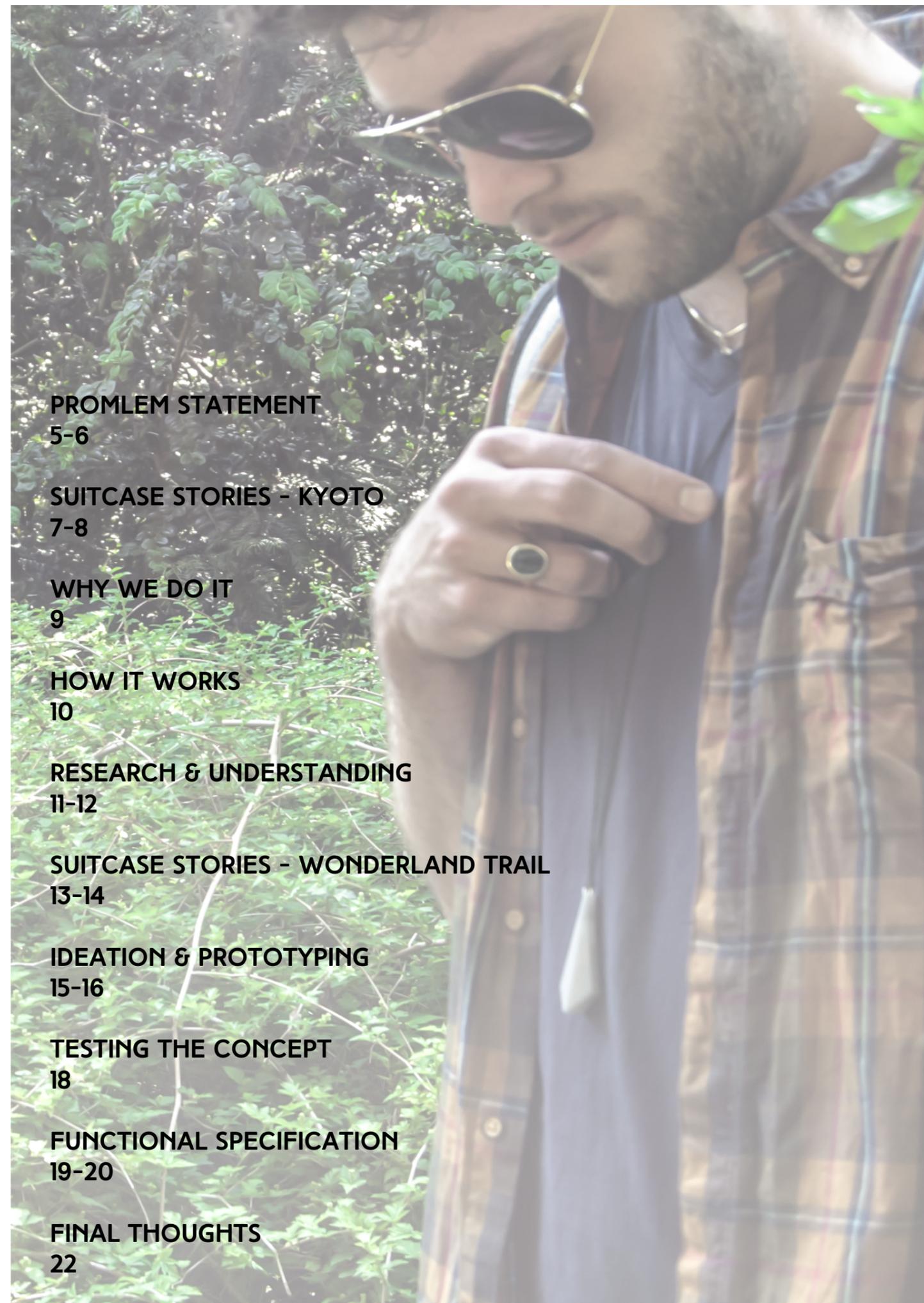
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As a wider range of sensors record and store our experiences, the valuable memories we can pass on to the next generation are becoming increasingly virtual. What happens to these data traces after we collected them?





SUITCASE STORIES - KYOTO JAPAN

Junko moved to San Francisco 15 years ago from her hometown Kyoto. It was her plan that she would finish her education and then move back home. This never happened. She met her husband John and settled down. Just as she was expecting to give birth to Miko last Christmas, her grandma grew very ill back in Kyoto.

By the time she was ready to take her trip and visit her grandma in March, it was already too late. Junko packed her bags and set off to Kyoto, where she attended her grandma's funeral. It was a beautiful ceremony. After the funeral was over, she picked up her grandma's TRACE and walked her grandma's route she would do every spring in Kyoto.

Junko walked through the charming cobblestone lanes with small teahouses in Gion that her grandma would visit for afternoon tea. After visiting the tiered golden temple of Kinkakuji for a good luck charm for her family, she ended her trip at Arashiyama bamboo grove. It was like entering another world – the thick green bamboo stalks seem to continue endlessly in every direction and there was a strange quality to the light.

Each time TRACE vibrates, she can feel her grandma still with her and reminds her that this is a special place to her family.



WHY WE DO IT

TRACE focuses on creating a new purpose of your GPS data from your trips and on making them into something you can connect to your loved ones. Data collection has allowed for the creation of TRACE that is both largely automated and entirely individual.

Whether it is for a friend, a loved one, or yourself, TRACE helps you make beautiful mementos from the places that are important to you.



MAKE MEMORIES

COLLECT MOMENTS



TRACE is a necklace which translates data collected during a journey into physical heirlooms. It can match past GPS data from a loved one with your current GPS data. It gives off a light vibration to the wearer to signify your routes aligning, enabling you to walk together and discover how your loved one moved through their journey whilst you experience your own.

The collected data is then used to create 3D printed jewellery that allows you to share experiences with those you love or reflect on memories with those who have shared the journey with you.

HOW IT WORKS

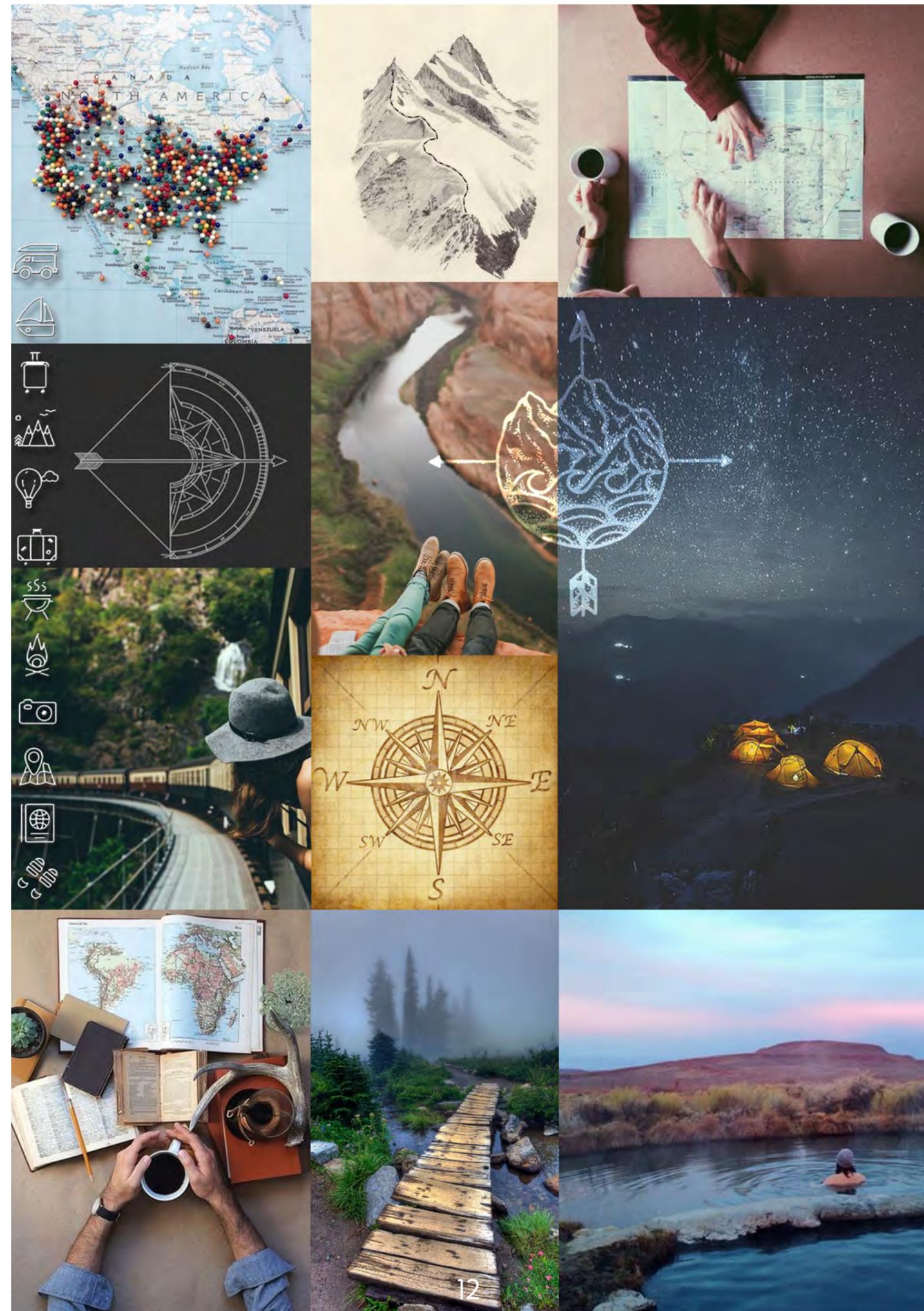
RESEARCH & UNDERSTANDING

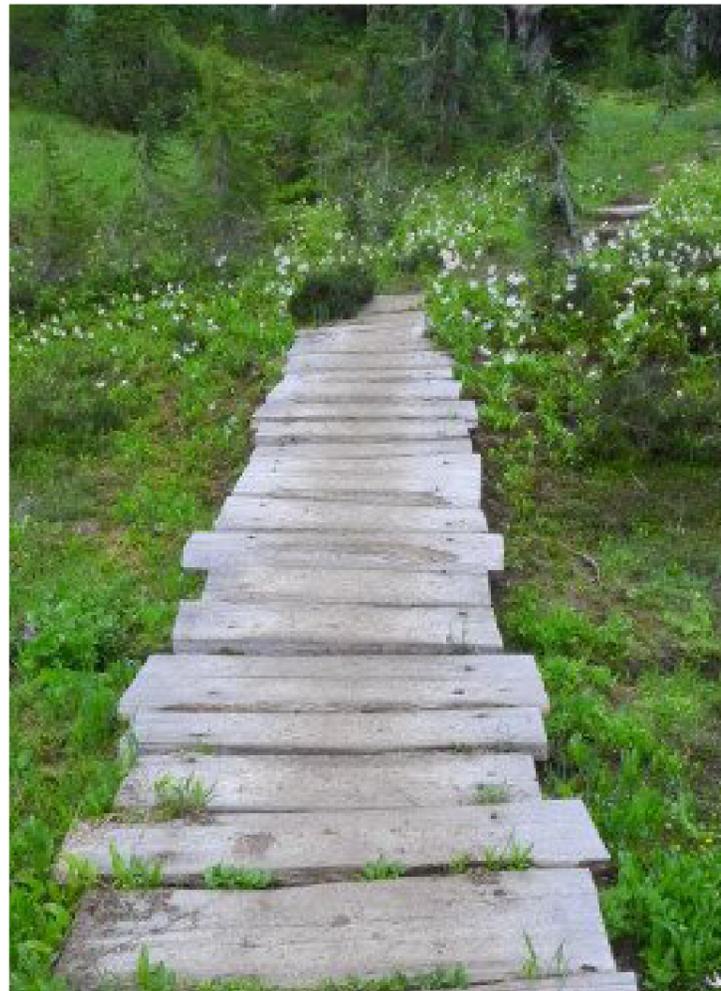
From our research, people want technology to preserve the good memories as a positive reminder of their life and loved ones, far away or lost.

People are busy in their lives. People constantly want to improve themselves as a person. They want more time and they never have time for themselves. There has been a lot of research that shows that travel can change your life. It changes your perspective, it boosts your health, and it most importantly uplifts your spirit.



Based on probe kits and interviews it became apparent that participants did not like to use wearable technology on a regular basis. There is no 'desire' generated from using the current wearable technology they have. From that, we held a focus group to discuss what is meaningful to people and about their views and interpretation regarding 'meaningful' and 'wearable technology'.





SUITCASE STORIES - WONDERLAND TRAIL MOUNT RAINIER, WASHINGTON STATE

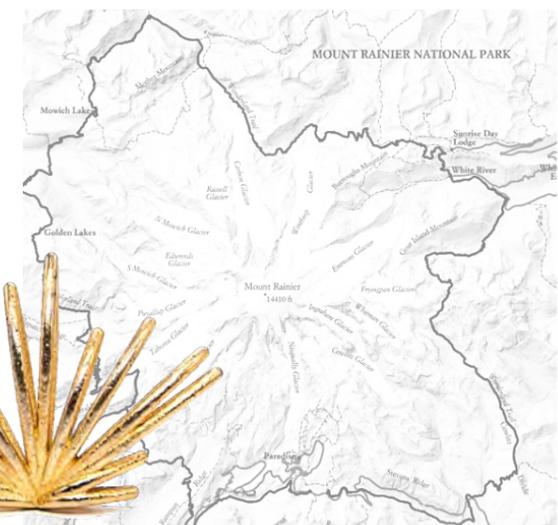
Jac and Adam had been training for months for the Wonderland Trail – a trail which reveals the Mount Rainier in all her glory. It is a challenging trail with a huge difference in elevation between lowland forests, valleys, alpine ridges and rushing rivers. One needs devotion and hard work to become physically and mentally prepared for the trip.

The panoramic views were breathtaking, with Rainier shimmering in the late afternoon light in front of them, Mt. Adams to the south, and, in the far distance, Mt. Hood. They knew this was a special view. They had their TRACE on and they pressed their own necklaces to record the special moment. They took their time and do the trail at ease to fully appreciate this amazing experience.

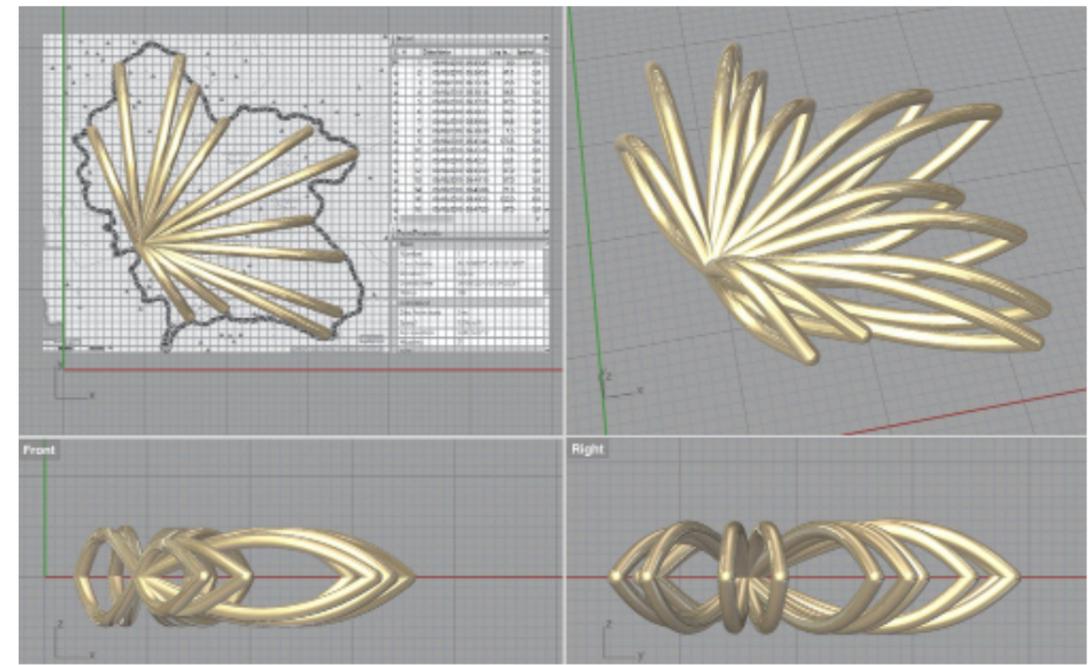
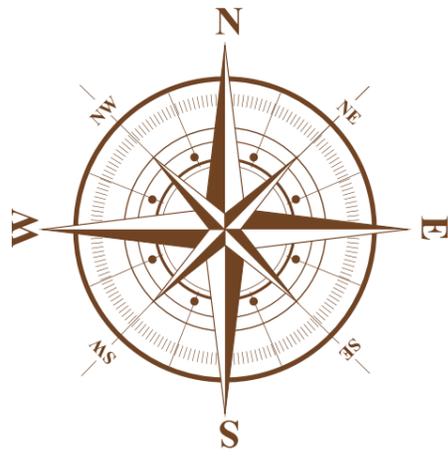
The boys had been thinking about how to maximize their energy level while getting together the gear a week before their trip. They reduced weight where they could, picking up some new ultralight stakes to replace the metal ones and even deciding that one toothbrush would be sufficient for both of them. However, they packed their own TRACE necklaces.

After the trip, they sent the necklaces back to TRACE. A month later, they received their necklaces back with their jewellery made from their own special moments. They still occasionally talk about doing the trail again 10 years later to re-test their strength, endurance, and the construction quality of their hiking boots.

Have no fear. The Park Service recommends 10-14 days to complete the entire trail. The Wonderland Trail is incredibly beautiful, and the boys were out there to enjoy not just the achievement, but for the journey. By the time they reached the highest point on the ridge they knew it had all been worth it.

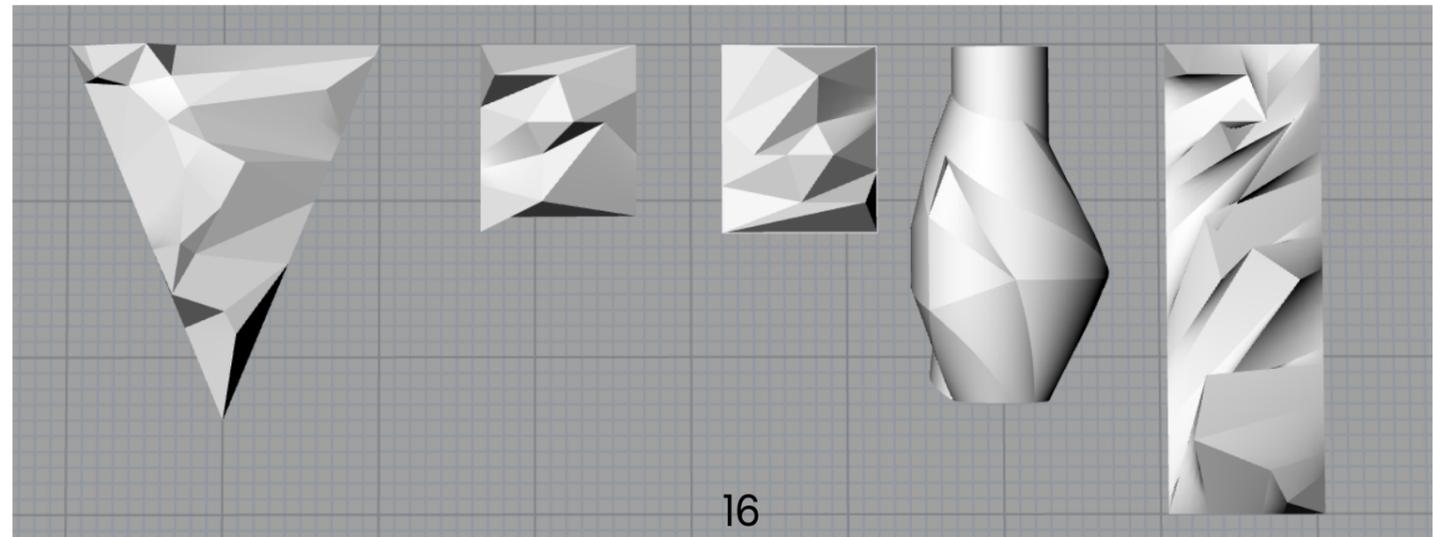
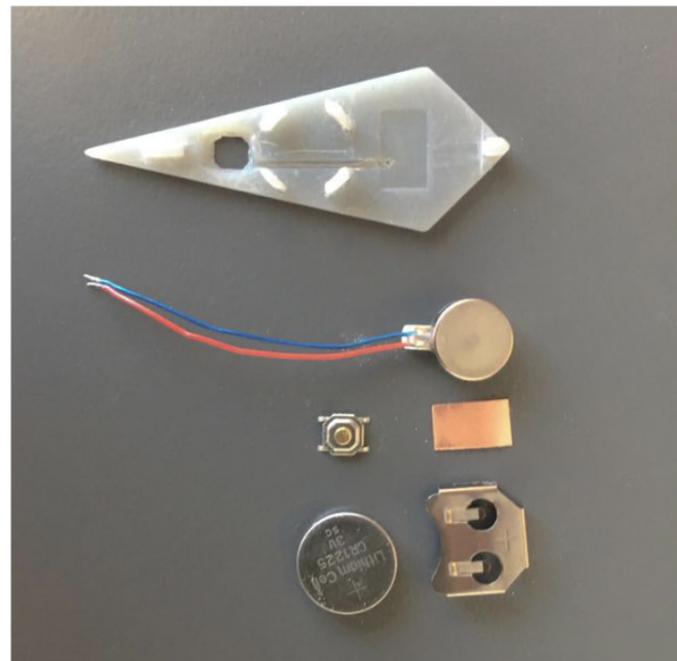
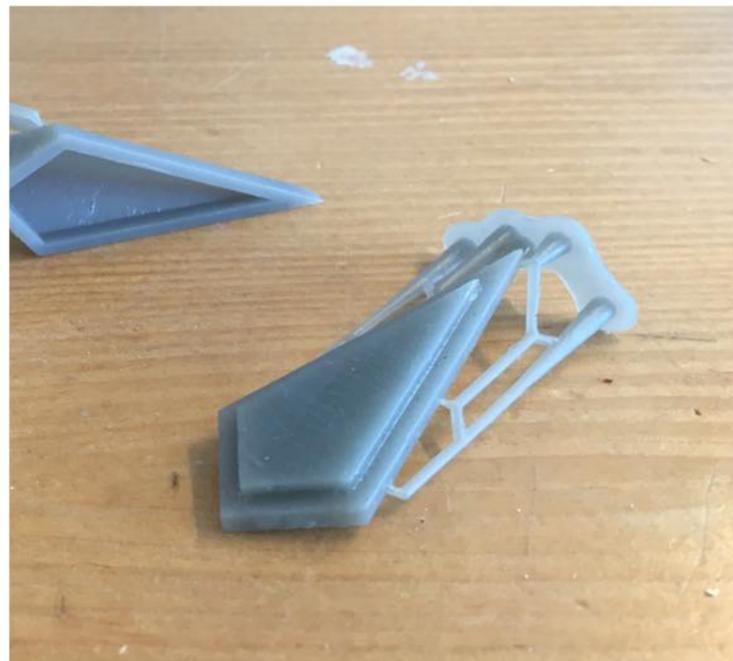
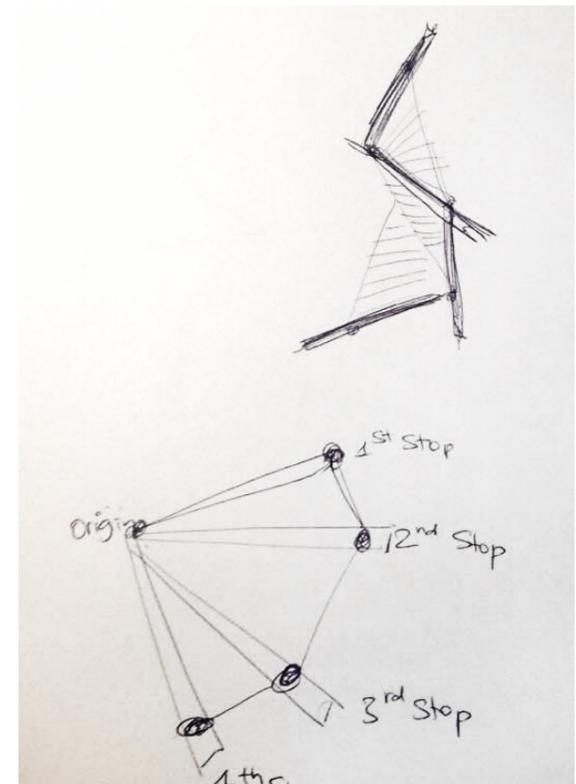
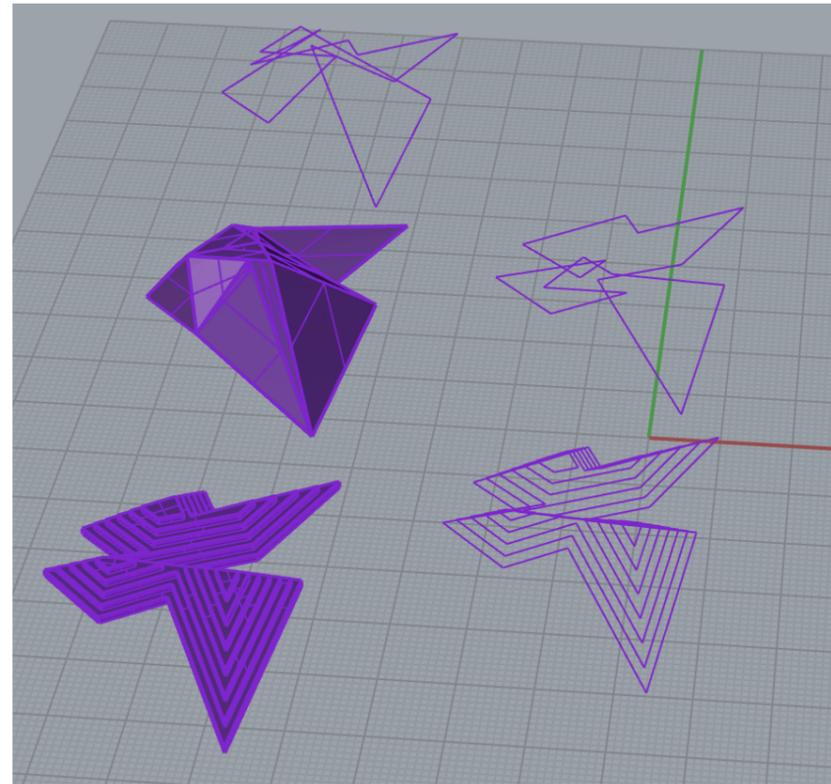


IDEATION & PROTOTYPING



For the design of the GPS necklace we were inspired by the form of the compass. This allows the wearer to be reminded that their TRACE will always point them towards their special moments.

For the physical heirloom we wanted to create sculptural jewellery that would reflect the users' journey and mark out their special moments.



TESTING THE CONCEPT

TRACE will give the customers the choice to own or rent the devices. This gives a sustainable solution to only 'owning' TRACE when it is in use. We plan to liaise with luxury travel agents as partners. The travel companies then would be able to rent out the necklaces for their clients during their trip as an added service. Feedbacks from the five different travel agents, local and abroad, are generally positive.

We introduced our concept to a focus group on May 20th 2016. Many like the concept of personal storytelling and having a connection to their loved ones. Some suggested extra functions like adding additional points after the trip even if they forgot the to record the moment.

TRACE takes those plotted GPS points and the results are a custom sculptural piece with personal meaning to the owner. We aim to provide customised product and services for our customers. With a simple login on our homepage the customer would be able to select the size, placement and material of their individual piece of jewellery.

FUNCTIONAL SPECIFICATION

TRACE uses "Global Positioning System (GPS)" - a navigation technology based on satellites that provides position and time information in all weather conditions and logs the data to an SD card. When pushed, the button on the back collect special moments from the wearers' trips, it will give off a slight vibration to inform the wearer that it has logged their position.

If the journey is taken again, with the same necklace it will vibrate when the user approaches a previous logged position.

The device is 3D printed in a tough weatherproof plastic that can easily handle being taken on a large variety of trips. TRACE is planning to be tested up to 5 ATM meaning it is sweat, rain and splash proof. However, the device is not swim-proof, nor shower-proof.





It is just the beginning for TRACE, more prototyping and researching options on the GPS function and energy harvesting will be part of our future plans.

We could also see an opportunity to work with wearables companies which already have products with GPS tracking function and provide them as an extra feature for their existing products.

Trace



MAKE MEMORIES