

**Present:** Dylan Rowsell, Harley McLachlan, Anika Sheikh, Raman Kaur, Riku Makita, Adham Sorour

**Purpose of Meeting:** Discuss new ideas and pick new idea

**Minutes:**

Meeting started at 2:45 PM by Dylan

**A. Research on Snowboard glove (Issue#1)**

- Raman shares her research on the idea
  - Discussion:
    - Everything we want to implement can be done in smart watch
    - Including features like Elevation and GPS
    - Harley suggests main point is to be able to do all these features using a snowboard glove (thick gloves)
    - Adham: There are gloves that are sensitive to touch
    - There is a similar product – Chubby Buttons 2 for \$100
      - Too pricey so we could make it cheaper

**B. Research on Smart Window (Issue#22)**

- Dylan shares her research on the idea
  - Discussion:
    - Not many sell this product, most exist through DIY projects
    - Can be attached onto the wall or install into drywall
    - Farnell lenses to imitate natural light and focus light into window. Use coating on the window with satellite dish.
    - Difficulties: How to make the light seem natural and like a regular LED
      - IKEA has smart light panel
    - Anika: There are many products similar in the market, one being by Samsung (concept)
      - However, no product that mimics the current weather
    - Harley: mimicking current weather can be a big enough improvement within our project
    - Adham: concerned that we might not be adding enough value

**C. Ideas for accessibility**

- Harley shares new ideas he got from the people of reddit on accessibility issues
  - Hands-free sex toys, Hands-free hair dryer → already exists
  - Heated winter canopy in wheelchair
    - Discussion:
      - Its hard for some people to get in winter jackets so it would be easier if the wheelchairs were heated outside
  - Medicine bottle opener → lots of similar products in the market but none seems to work for all kinds of disability
  - Reminder for items to take when leaving the house
    - Discussion:
      - Use RFID – little tags on the items which tracks if the items is inside or outside the house
      - Can be targeted towards several different crowds like elderly and people with ADHD

- iPad/tablet mounted to wheelchair that you can control with joystick
  - Discussion:
    - Some people don't have the ability to hold phone or move neck down
    - Some people also don't have finger dexterity to use touch screen
    - Can make a joystick mouse to navigate iPad/tablet
    - Target towards people without fine motor skills

#### **D. Research on Pet Feeder (Issue#24)**

- Raman shares her research on the idea
  - Lots of similar products exist but some ways to improve the products are
    - Reminder when the food runs out
    - Self cleaning feature
    - Notify how long the food will last for

#### **E. New Ideas**

- Harley: Camping gadget that would create energy from campfire using thermoelectric generator
  - fancy version exists
  - we can make it more portable
- Adham: GPS that projects onto a transparent windshield (Issue#25)
  - Camera that takes real time video of the road which we use to color in the road on the windshield according to GPS
  - Problem: big scale - might take more than 8 months
- Riku: Smarter traffic system where it can detect the state of traffic and move the lights accordingly
  - So apparently in Canada traffic lights are set on timers that can change throughout the day based off set time schedules. Once their set they are barely ever changed apparently. I think the biggest problem with this system is that it's all individual based. Not one light relies on the other. So, what I'm thinking is a Smarter traffic system where it can detect the state of traffic and move the lights accordingly. So, like if one light turns red. All the cars get backed up there but then the next lights are all synchronized so that the same group of cars can move together through those lights
  - Less traffic we can get on the roads = less greenhouse gas emissions, less chance of accidents
  - Possibly sell it to government
  - Problem: no hardware component

#### **F. Vote on top 2 ideas to take to Craig from top 6 ideas**

- Pet Feeder (Issue#24) - 0 votes
- Snowboard glove (Issue#1) – 0 votes
- Smart Window (Issue#22) – 5 votes
- Grab item reminder – 4 votes
- Wheelchair heater – 0 votes
- Joystick to navigate through iPad – 3 votes

#### **G. Things to do before next meeting**

- Raman emailed craig for his availability to meet
- Meet with craig to discuss top 2 ideas and then pick an idea

**H. Next meeting**

- When craig is available
- If craig is not available before Wednesday, then Wednesday 6:30PM

Meeting adjourned at 3:44 PM by Anika