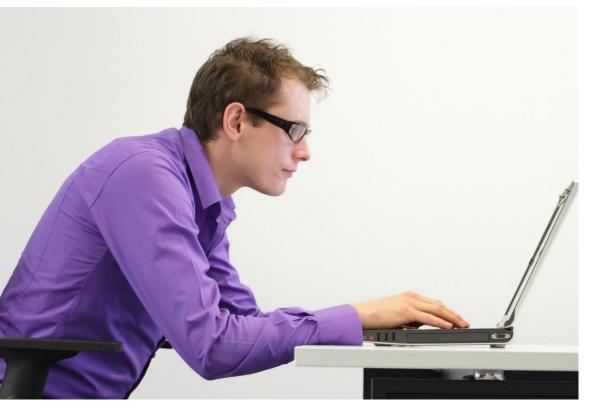


Daniel Hua Ashley Lindsey Mike Stepanovic Yuqian Sun

## **Overall Problem**

#### Poor posture causes many problems



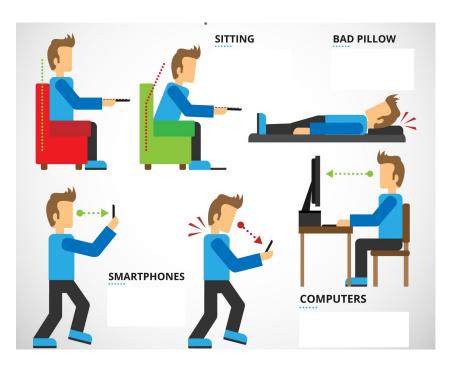
- Poor self-esteem
- Depression<sup>[1]</sup>
- Decreased energy
- Bad first impressions
- Decreased motivation
- Back/neck pain<sup>[2]</sup>
- Digestive issues
- Poor breathing
- Increased risk of death<sup>[3]</sup>

...but it's very difficult to correct.

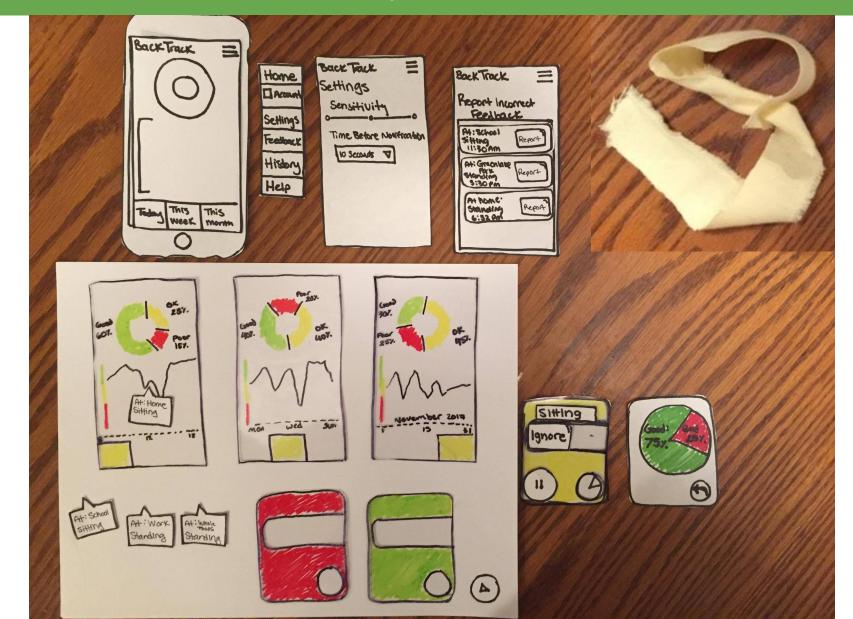
### **Principal Tasks**

- 1. Becoming aware of "posture creep"

#### 2. Adapting to changing activities



### **Initial Paper Prototype**



Back Track =	Home Home Dack Track = Settings Settings Settings Sensitivity Time Betre Nonfraction Hitslory Help Help Mr Banding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding Galanding	Renort
Image: Second		<section-header></section-header>

History Help	
	<section-header></section-header>

Tested 3 participants in their natural work environments with the paper prototype and a fabric "wristband"

Tasks: Avoiding Posture Creep Adapting to Changing Activities

Difficulties

- Participants' hyper-awareness of their posture while testing
- Simplicity of tasks



# Changes Made

Feedback View of Current Posture

- Help users see what their current posture looks like
- Guides the user to correct posture

Calibration

- Starting screen informs user what correct posture should be
- While in use gives user a way to correct device if sensors get off

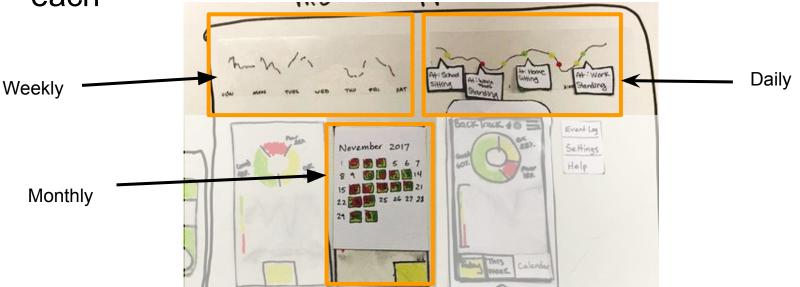




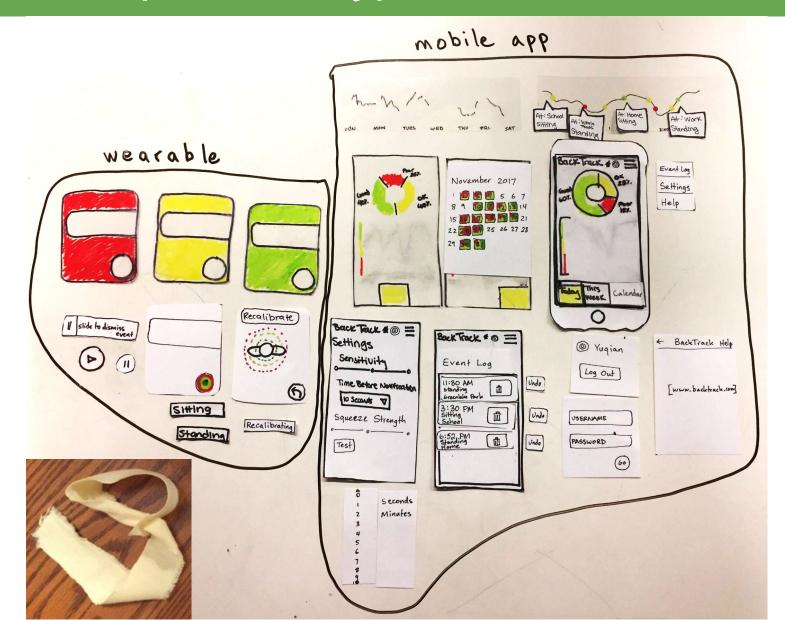
# **Changes Made**

Information Visualization

- Added affordances to graphs to let users know what parts they can interact with
- Different visualizations for day/week/year to account for the variations in what information a user might need for each



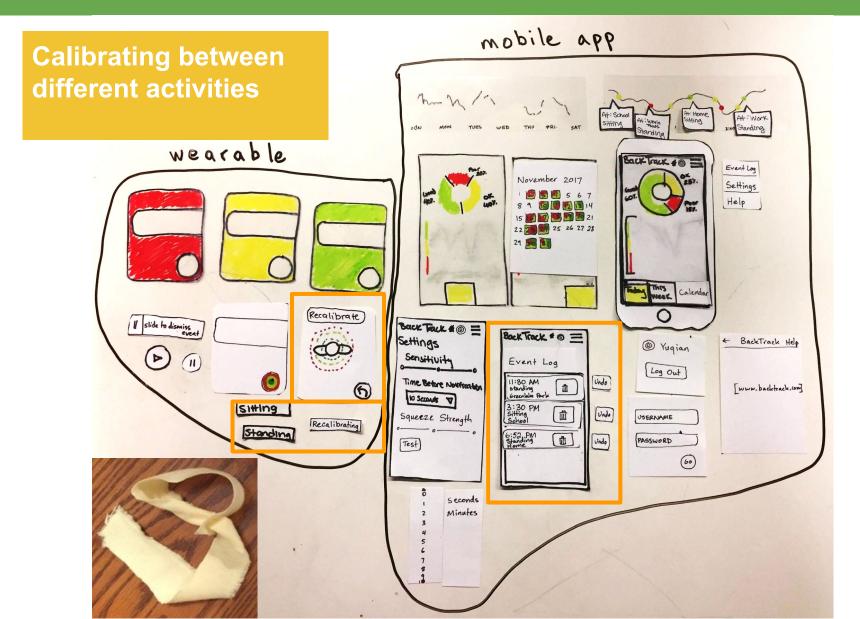
### **Final Paper Prototype**



11/16

### Task 1





12/16

## **Final Digital Mockup**



#### Becoming aware of daily "posture creep"



#### Calibrating between different activities



Summary

#### Lessons Learned

- Iterative design: there is always space for improvement even we think the design is perfect
- The process of iterative design has great impact on the users and tasks we target
- It's difficult to design a task associated with unconscious behavior
- More heuristic testing helps to reduce the consistency problem of prototype and then get useful feedback



Daniel Hua Ashley Lindsey Mike Stepanovic Yuqian Sun