

Sitless



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7.7 hours

The amount of time an average person spends sitting a day

Sitting more than

3 hours / day

can cut life expectancy by

2 years

even with regular exercise

Source: <http://healthland.time.com/2012/07/10/get-up-sitting-less-can-add-years-to-your-life/>

Source: <http://www.telegraph.co.uk/wellbeing/fitness/sitting-disease-is-killing-us-and-exercise-doesnt-help>

**How can we motivate
people to sit less?**

Contextual inquiries

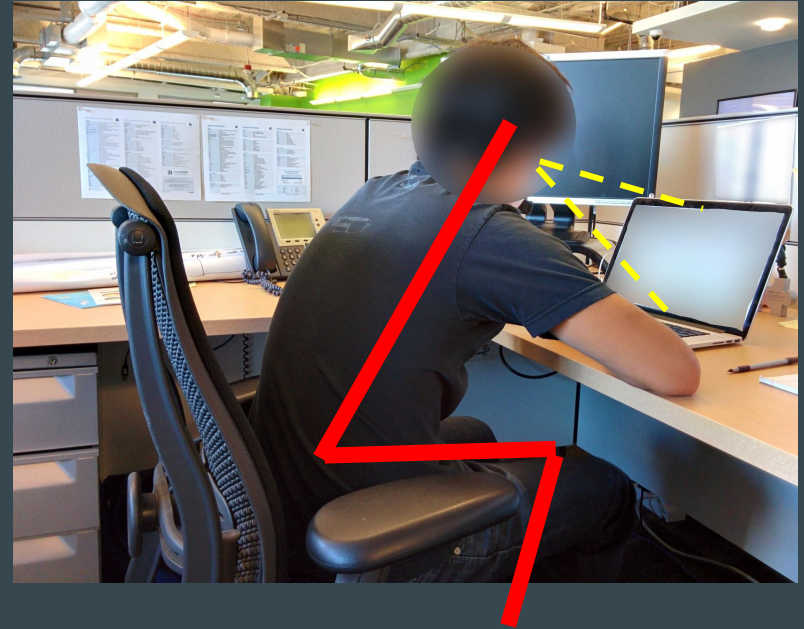
Observations in the field



Observations in the field

What did we observe?

- Posture
- Duration of sitting
- Duration of breaks
- Type of seat
- Other metrics



What we found

In general, our participants...

- sat for long intervals
- took short breaks
- were aware of bad habits
- wanted access to a standing desk

Some questions for our design

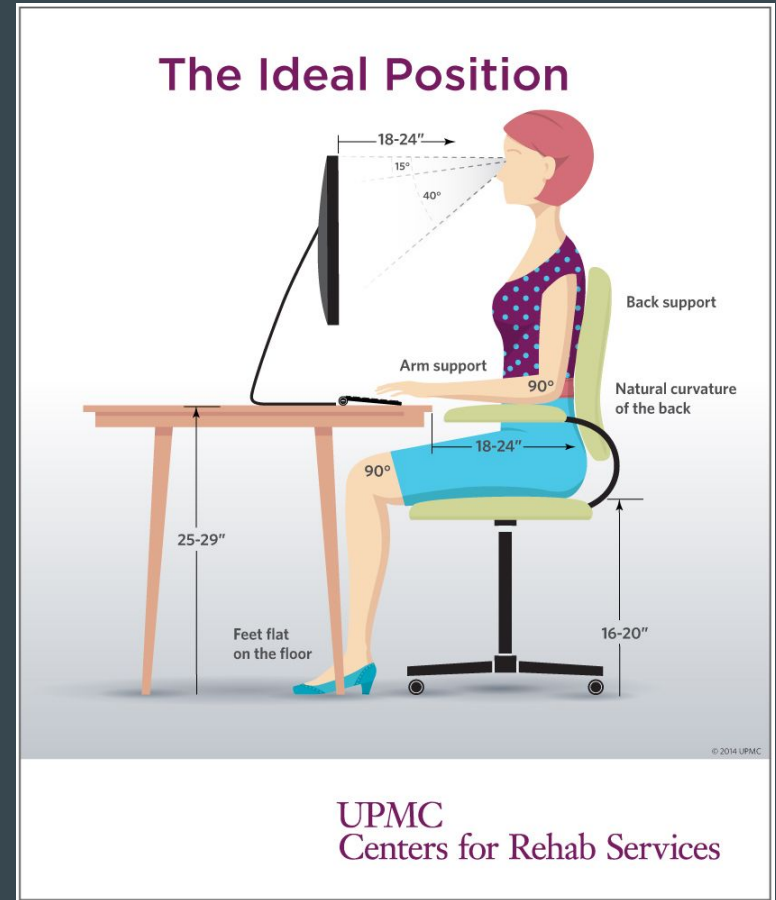
How can we...

- encourage the user to un-sit without disrupting their flow?
- motivate users to take longer breaks?
- educate users on proper sitting posture?

Tasks

Improve sitting posture

Pictographic representation
of correct sitting posture



Smart reminders to sit less

Don't nag the user every x minutes -- remind them when they're not busy



Suggest activities while not sitting

What should the user do during his/her break?



Understand sitting patterns

Metrics and visualizations of the when, where, and why of sitting



Track progress towards healthy sitting habits

Measurable, realistic goals personalized for the user



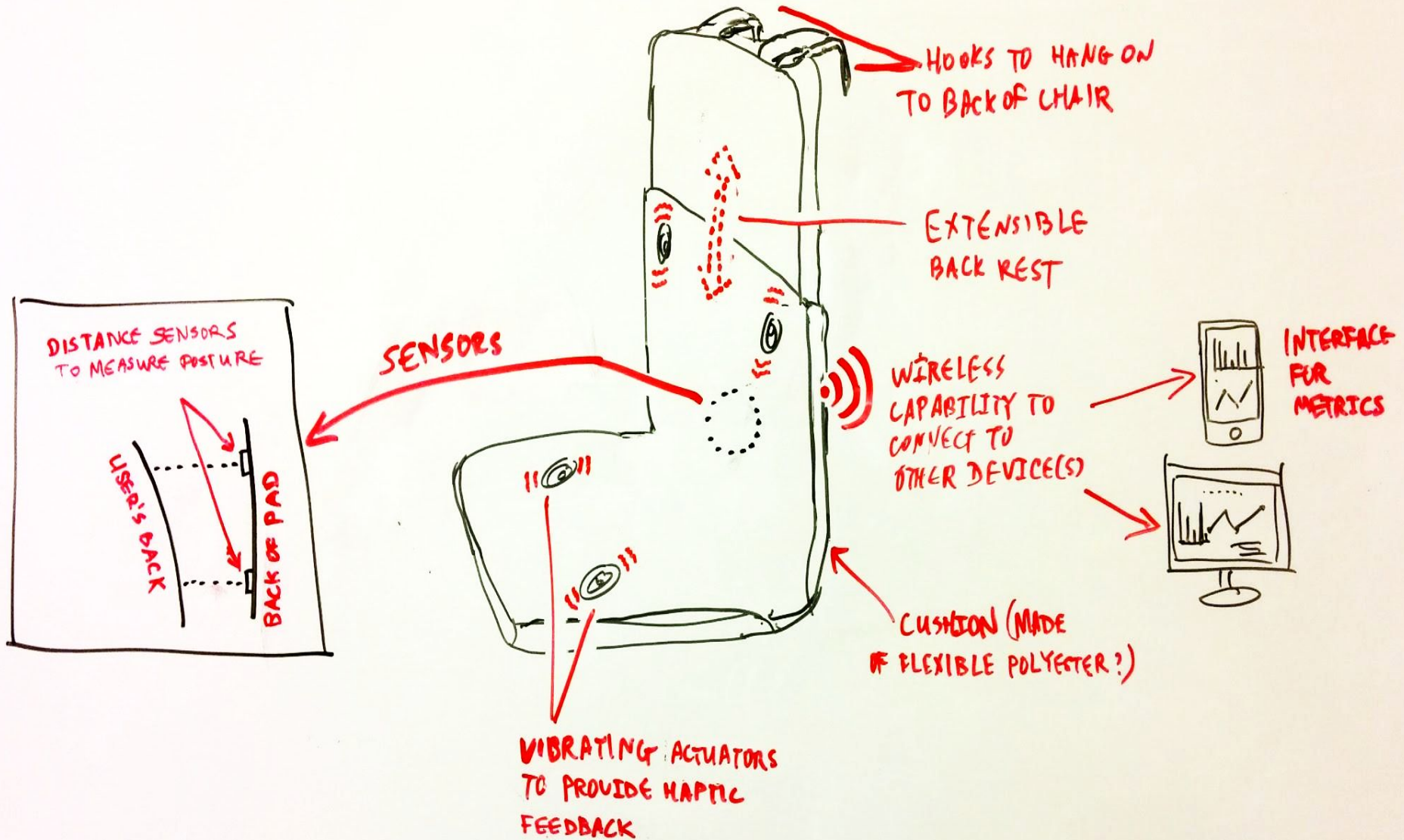
Leverage social connections

Motivation from friends and coworkers using the integrated system

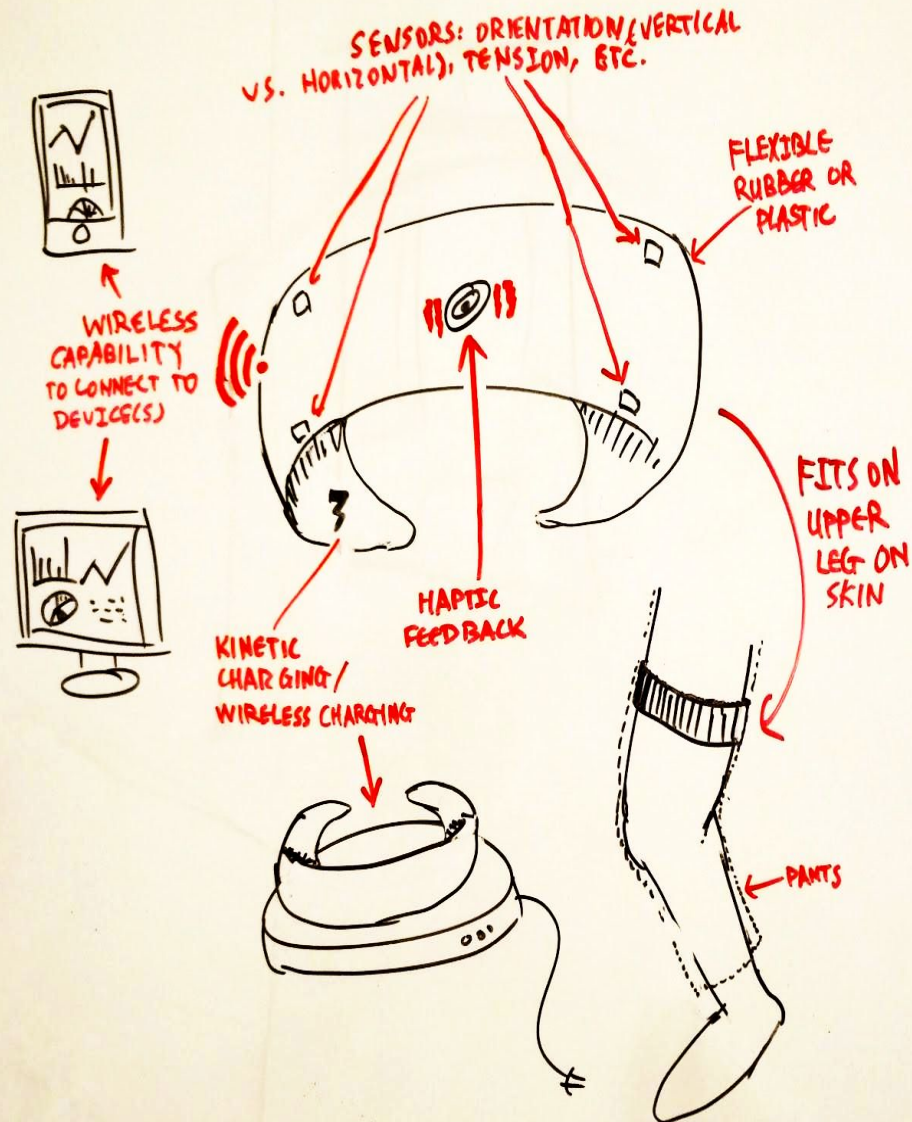


Design sketches

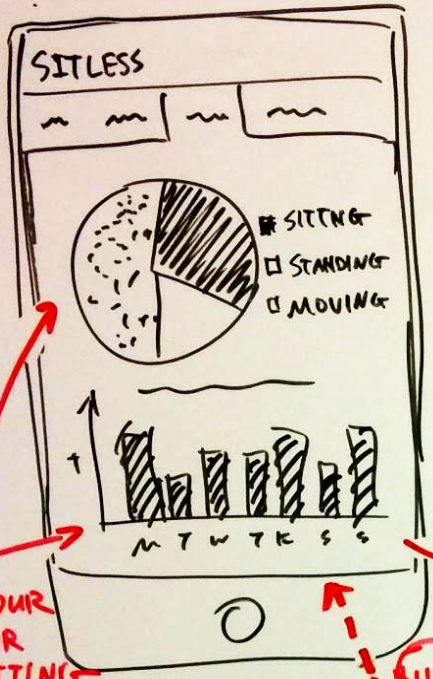
SMART CHAIR PAD



SMART LEG BAND



INTEGRATED SYSTEM



SITLESS

ADD DEVICE

CONNECT TO MORE SENSORS FOR SITTING DATA

SITLESS

Here are some suggested activities!

Get coffee, Talk with coworkers, Take a walk, stretch!

SITLESS

This is how to properly sit!

Illustration of a person sitting correctly with posture lines.

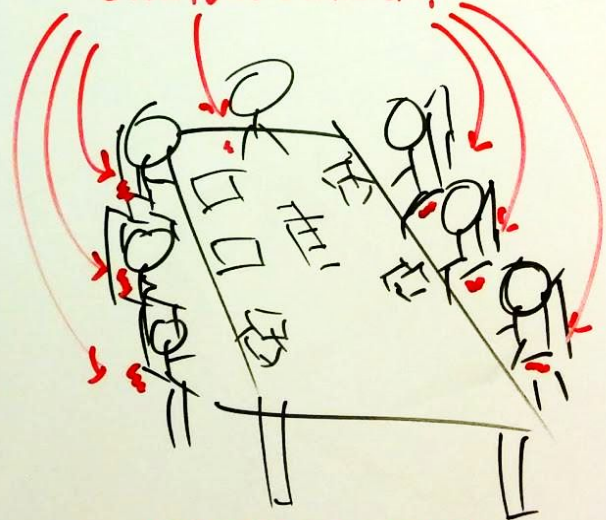
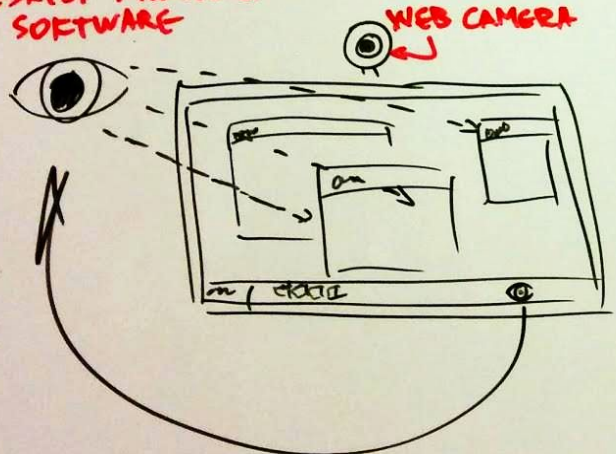
TRACK YOUR BEHAVIOR FOR SITTING

USER NOT BUSY, STAND UP!

APP SAYS: EVERYONE STAND UP!

SHOW USER GOOD POSTURE FOR SITTING.

LAPTOP/DESKTOP MONITORING SOFTWARE



Our choice

Leg band with app and desktop integration

- Supports accurate data gathering
- More portable (unlike chair pad)
- Leverages existing devices (smartphone, desktop, laptop)

Storyboards

BOB PUTS ON SIT LESS BAND
AT THE START OF THE DAY



AT HOME



STARTING WORK DAY



BEING PRODUCTIVE



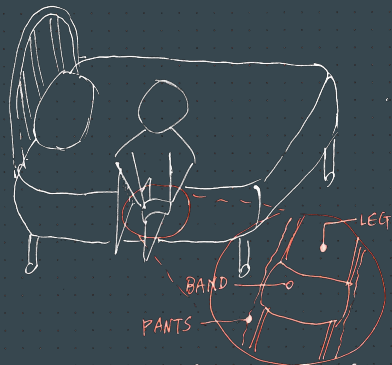
NOT BEING PRODUCTIVE



REMIND USER TO STOP SITTING



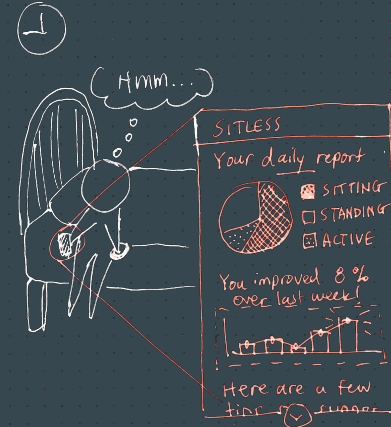
USER GOES FOR A WALK



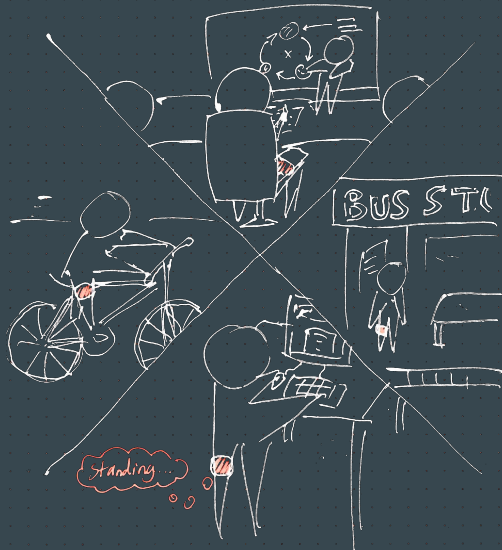
BEFORE SCHOOL, TAYLOR PUTS ON THE SITLESS BAND TO TRACK HIS SITTING ACTIVITY



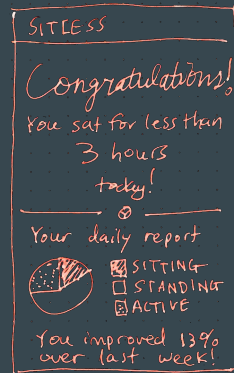
DURING THE DAY, THE BAND PASIVELY MONITORS TAYLOR'S ACTIVITIES AND RELAYS THE DATA TO TAYLOR'S PHONE



TAYLOR CAN CHECK HIS PHONE DURING HIS DOWNTIME TO SEE HIS DAILY REPORT AND PROGRESS TOWARD HEALTHIER SITTING HABITS.



ARMED WITH THIS KNOWLEDGE, TAYLOR IMPROVES HIS SITTING HABITS, OVER A LONG PERIOD OF TIME.



THE APP CONTINUES TO PROVIDE FEEDBACK AND MOTIVATION TO TAYLOR AS HE CONTINUALLY IMPROVES HIS GOOD HABITS.

In a nutshell

People...

- are generally aware that they sit too much
- take very short breaks
- need to be motivated and reminded to sit less

We learned that...

- this is an important health issue
- there are many apps that try to address this problem
- reminders need to be done more intelligently

Questions?