When one **door closes**

another door opens.

But we so often look so long and so **regretfully**

upon the closed door, that we do not

**see the ones which open.**

Alexander Graham Bell

1847-1922, inventor of the telephone
mockup

targeted models to realistically resolve fundamental issues and risks associated with a concept
mockup

risks

red A writing coach
mockup

pink A spinal rescue
Vision

A device for arborists to **safely** and **easily** evaluate the **health of branches** that are high above the ground.
**mockup specs**

---

**SPECIFICATIONS**

- **Changes Position Quickly**
  - Maximum transition time < 120 seconds

- "No more than 2 minutes which would be approximately the time between contractions during active labor for position changes"

- Dr. Ruth Zielinski, Head of Midwife Program at UMICH

---

silver A bend bed
mockup

visualization

Comparison of Stopping Distances at 65 mph

blue A brake system
**RISKS**

Can we make it *light & comfortable* enough?

**PROBABLY.**

- Integrating (2) 1400mAh Li-Ion cells provides sufficient runtime for transmitter and headlamp.

- Our headlamp & PLB benchmarking teardowns indicate potential for ~80 grams weight reduction.
reviewer scores

24 instructors and mentors, 2 hours of discussion
reviewer scores

These data represent a quick group impression
reviewer scores

Reflect on what worked and possibly why
reviewer scores

A low number can mean well done!
reviewer scores

There are lots of different impressions for a variety of reasons.
is.
not.
grade!
ranking

dthis is not a grade!
Process mockup phase

Three ideas presentation
- September 24, during class
- 3 ideas per section

Mockup review
- October 21
- 2 mockups per section

Assembly review
- November 1 & 3
- 1 assembly

Sketch model review
- October 7
- 3 models per section

Final selection
- October 26-28
- 1 concept per team

Technical review
- November 15
- 1 (almost) prototype

Final presentation
- December 6
- 1 alpha prototype
Process Sunday 5 PM
Next week

Lab

Final presentation
December 6
1 alpha prototype

Technical review
November 15
1 (almost) prototype

Final selection
October 26-28
1 concept per team

Assembly review
November 1 & 3
1 assembly

Mockup review
October 21
2 mockups per section

Sketch model review
October 7
3 models per section

One subtheme

Three ideas presentation
September 24, during class
3 ideas per section

Process

Next week
FNAP

Facts. Not assertions. Please!

the action of stating
something or
exercising authority
confidently and
forcefully.
YES
G’DAY
give. decide. accept. yo-wup!
give
decide. accept. yo-wup!
my give. decide. accept. yo-wup!
my
Team Meeting 7

Team Meeting Objectives

The main goal of the team meeting this week is to determine which concept your team will pursue for the remainder of the term. Once this decision is made, your team should organize, allocate resources, and begin working towards the assembly review, as well as continue with physical modeling in support of the technical review.

It is important to have your full team and your instructors participate in the concept selection process, so it is strongly recommended that you wait until this week’s team meeting before making a decision.

Preparation Before Team Meeting 7

INDIVIDUAL:

Please review the resources for lecture 18 (will be linked when available) so that you remember what the mindset is that you should have for this team meeting. Read the assembly model review (November 1 or 3) and technical review (November 18) descriptions so that you are familiar with the upcoming milestones. Also, be sure to review the nine 2.009 product risk factors and success factors for 2.008 projects.
give
decide. accept. yo-wup!
decide
give. accept. yo-wup!
<table>
<thead>
<tr>
<th></th>
<th>Nail</th>
<th>Ring Shank</th>
<th>Staple</th>
<th>Screw</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate</td>
<td>S</td>
<td>S</td>
<td>+</td>
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<td>Cost</td>
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<td>Holding</td>
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<td>+</td>
<td>-</td>
<td>++</td>
</tr>
<tr>
<td>Effort</td>
<td>S</td>
<td>S</td>
<td>+</td>
<td>-</td>
</tr>
</tbody>
</table>
accept
give. decide.  yo-wup!
give. decide. accept. yo-wup!
Yes
Yes
Yes
Yes
No
accept

give. decide. yo-wup!
yo-wup!
give. decide. accept. yo-wup!
yo-wup!

hey....
yo-wup!

yo

yo

hey. . .
G'DAY
give. decide. accept. yo-wup!
THE FOLLOWING SKIT HAS BEEN APPROVED FOR APPROPRIATE AUDIENCES
THE FOLLOWING SKIT HAS BEEN APPROVED FOR APPROPRIATE AUDIENCES

RATED G
GENTLE CRITIQUE
Speak the Truth
We shall be honest and objective, inside and outside the firewall.
We shall be transparent and reflect the best understanding and work practices.

Be Accurate
We shall observe and correct our actions and decisions.
We shall improve.

Focus and Prioritize
We shall commit to creating value for our staff, projects, and clients.
We shall produce useful, usable, and elegant solutions.

Learn, Build, and Share
We shall develop our skills throughout our careers and provide guidance and educational opportunities for our colleagues and clients.
We shall embrace change and be flexible in our processes, operations, and values.

Protect the Public
We shall hold paramount the safety, health, welfare and other rights of human beings.

COMMIT TO COMMUNITY
We protect the public by holding paramount the safety, health, welfare, and rights of human beings.

GO LIKE HELL
We are driven and committed to what we do, putting extra effort in our quest for exceptional results.
GOINVO
CODE OF ETHICS 2021

SPEAK THE TRUTH
We will be honest and objective. We will be transparent, and provide insight into our thinking and work.

MAKE THE WORLD USEFUL, BEAUTIFUL, AND DELIGHTFUL
We exercise the discipline to produce ideas and things that are useful to and beautiful in the world.

LEARN, BUILD, AND SHARE
We are curious, open creators who welcome new ideas and the input of others.

COMMIT TO COMMUNITY
We protect the public by holding paramount the safety, health, welfare, and rights of human beings.

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GO LIKE HELL
We are driven and committed to what we do, putting extra effort in our quest for exceptional results.
a code of behavior or conduct justified according to a reasoned value system
a fundamental truth.

the foundation for a system of behavior
canon

a criterion by which something is judged
Integrity.

we will represent the product accurately especially when considering results and risks
Work.

if we cannot fulfill responsibilities, we will communicate clearly and early to our task force
Communication.

we will give and seek constructive feedback from each other, challenging or endorsing ideas, not people
WE WANT YOU!
We want you!
submit draft team code by midnight Sunday

receive feedback on code by noon Monday

submit final code by noon Tuesday

codes will be mounted and posted in conference rooms
Process Monday midnight

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Process Next week
009 staff code

do my part
create a meaningful, joyful, challenging experience while keeping all involved safe

be kind
support, respect, and celebrate all students in their efforts

provide opportunities
open doors to new paths of exploration and growth

walk-the-walk
commit fully, teaching by example