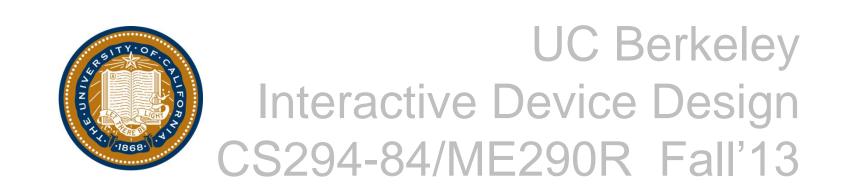


# Timely alerts during any disaster



Alvin Yuan Kevin Tian Lanssie Ma

#### Problem

In emergency situations where power is knocked out, people have few methods of timely communication. As a result, important information related to safety is spread slowly and often arrives late.

### Target User

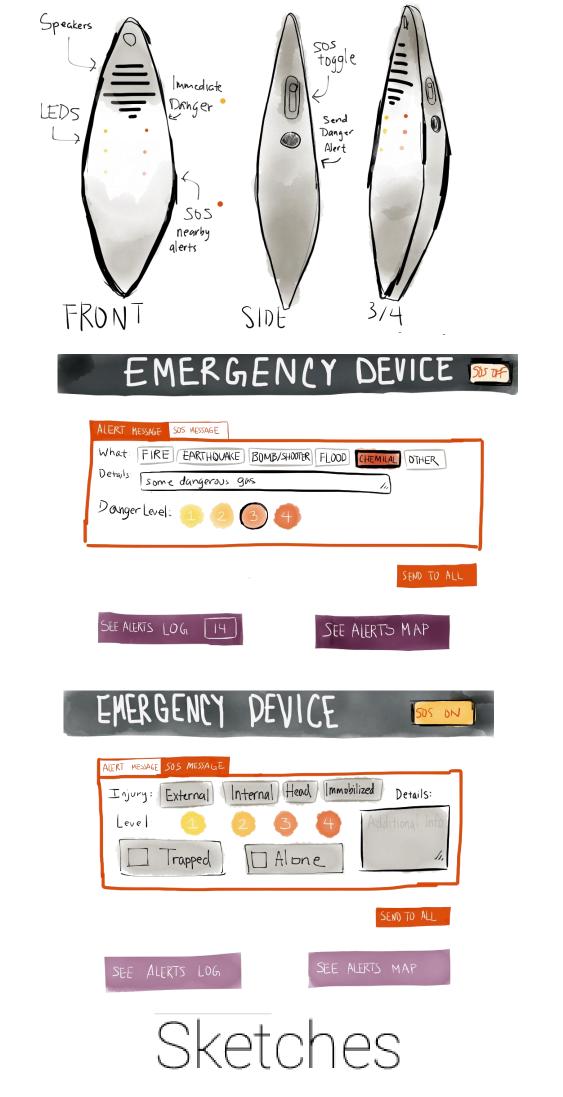
The goal is for anyone to be able to afford one of these devices and be how to use it. We also allow users with smartphones to have augmented communication features. For this project, we focused on a natural disaster situation (earthquake).

### Solution

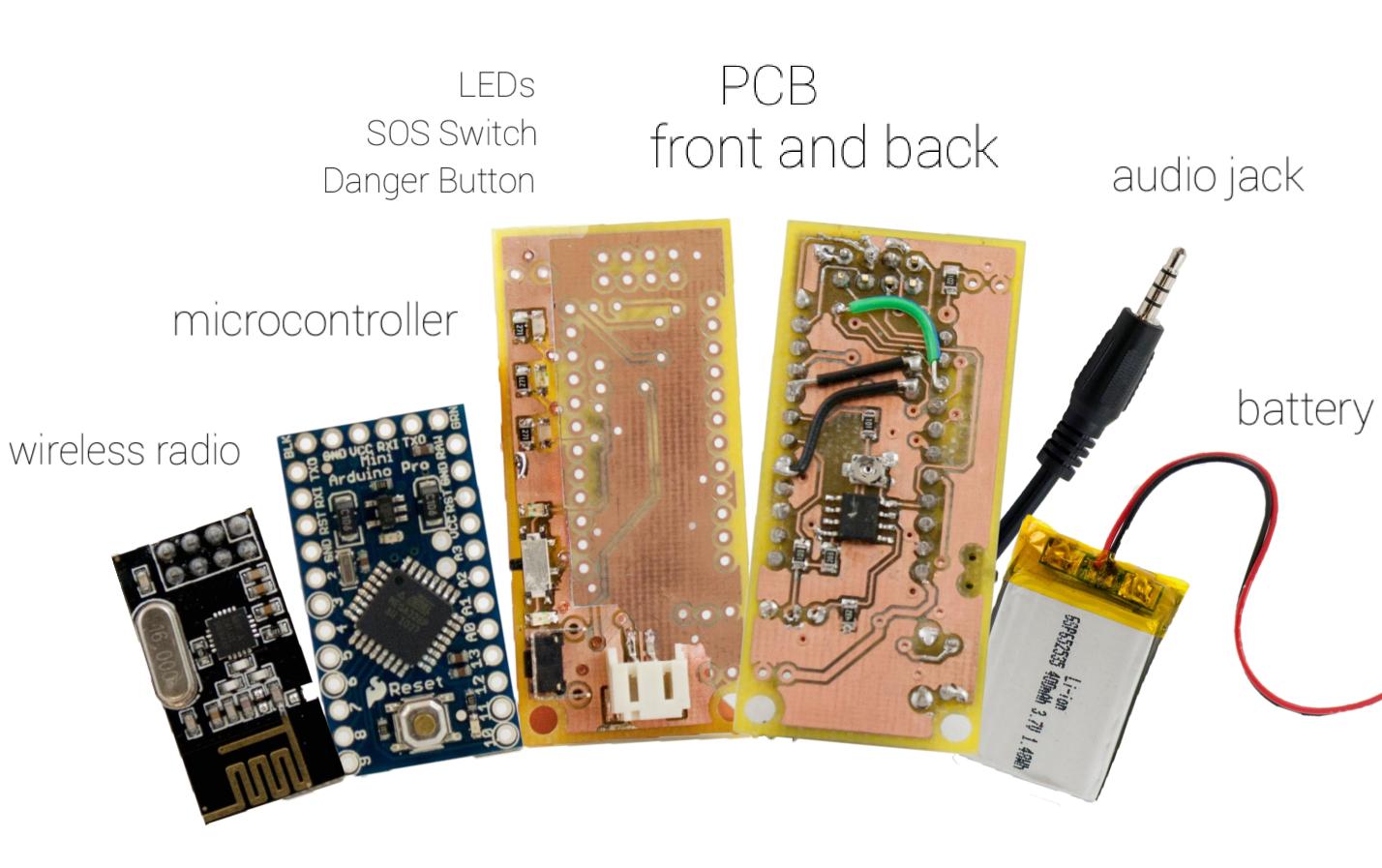
Create a low-cost device that can be distributed to large populations that can provide mesh network communication during emergencies. Allow people to provide important safety information.

# Introducing Chirp

### from concept to device



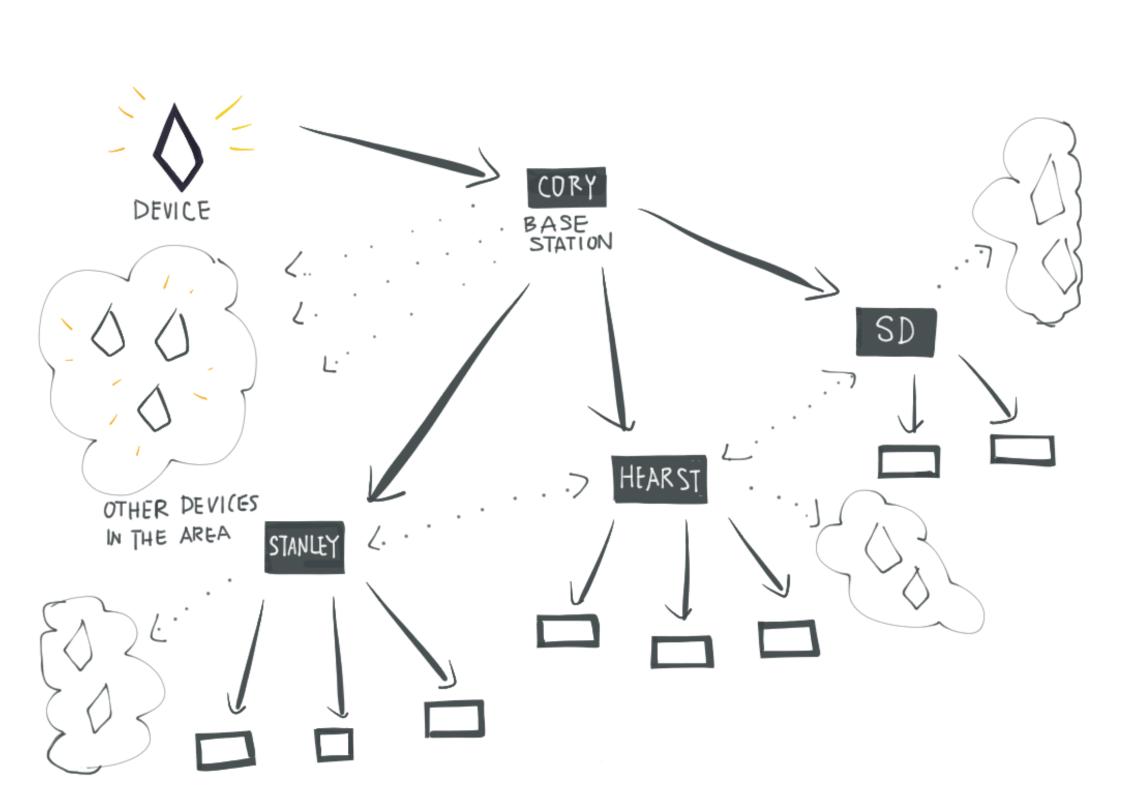




Finished Device

Internals

### Networking

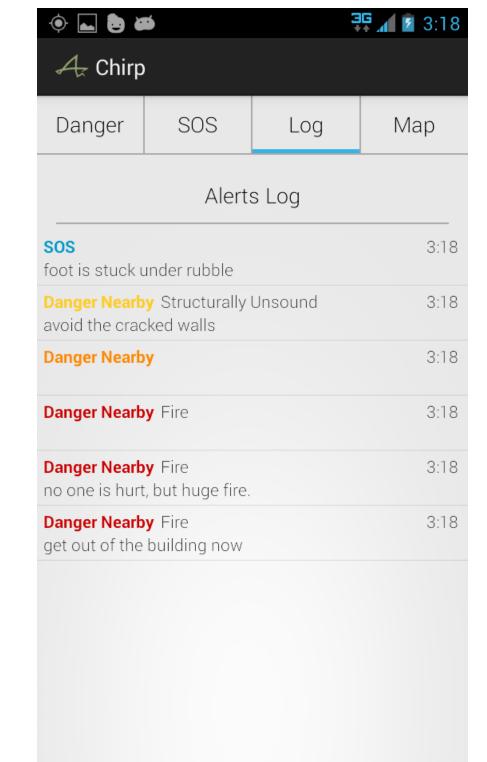


High level vision of the network structure and communication.

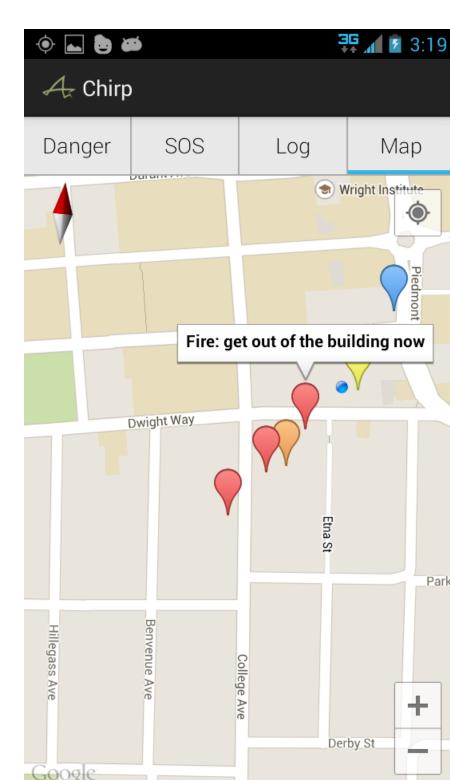
# Mobile App



Users with smartphones can provide more details in the messages they send out.



Through the app, users can also view a list of messages they have received over time.



Finally, app users can view a map and see where each message came from.