



Our Solution to the Opioid Overdose Crisis



Team 5 - “Inevitable Dropouts”

Dhvani Patel, Mohamad Ahmad, Sheetal Harakh, Yi Ru Loh

Our Problem

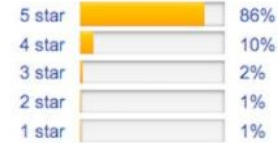
“A need exists for people who use opioids to safely have their **blood oxygen saturation** monitored and **location** quickly sent to emergency services in case of overdose, with a device that is **discrete and cost-effective**.”

The Importance of Research and Benchmarking



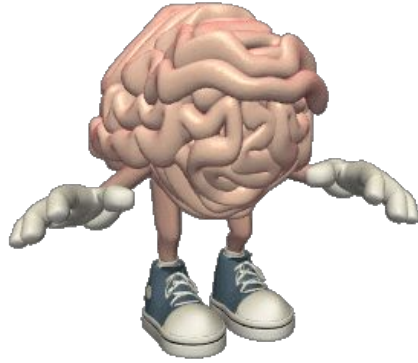
Customer Reviews

★★★★★ 31,212
4.8 out of 5 stars ▾



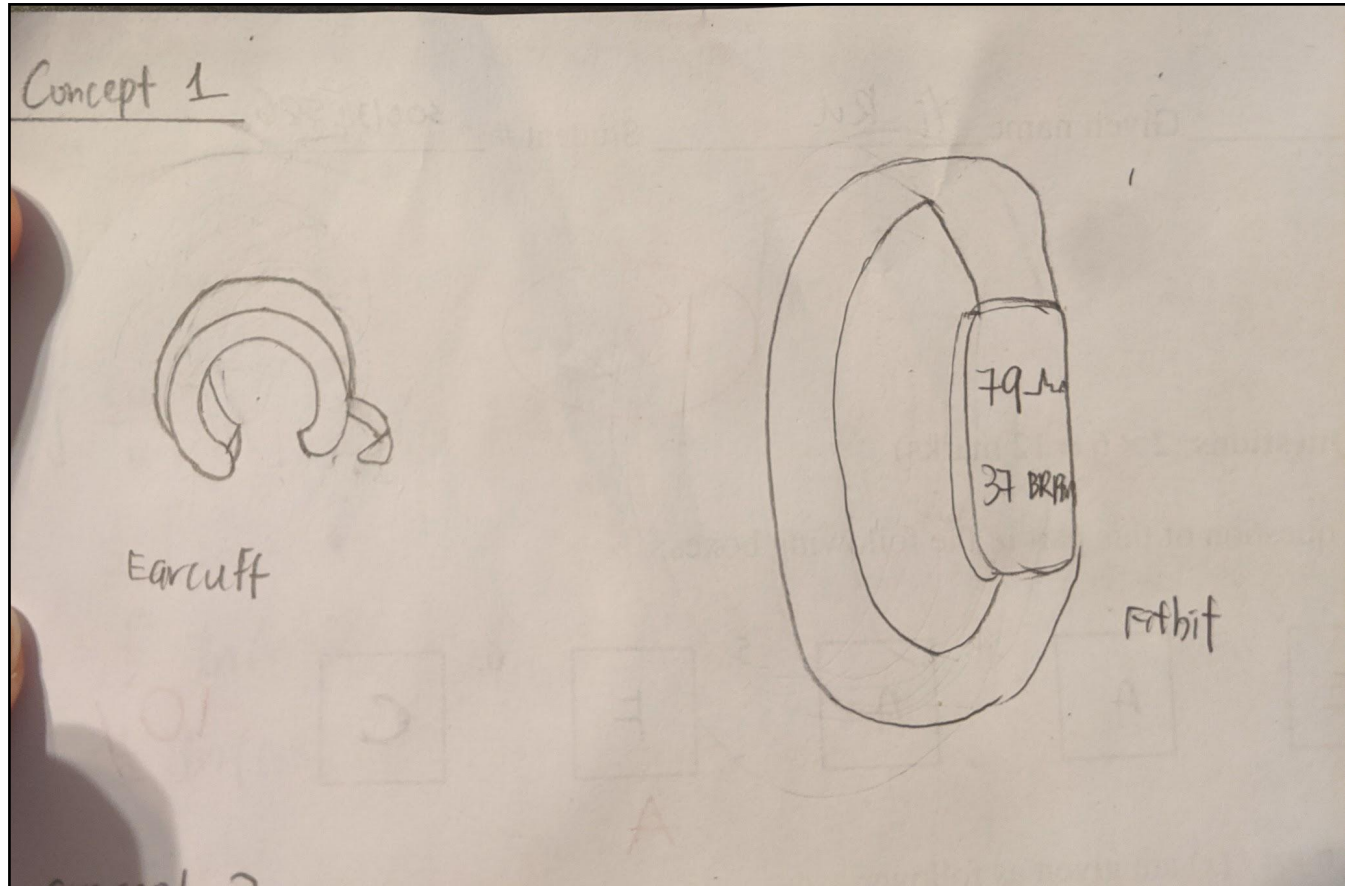
[See all verified purchase reviews ▸](#)



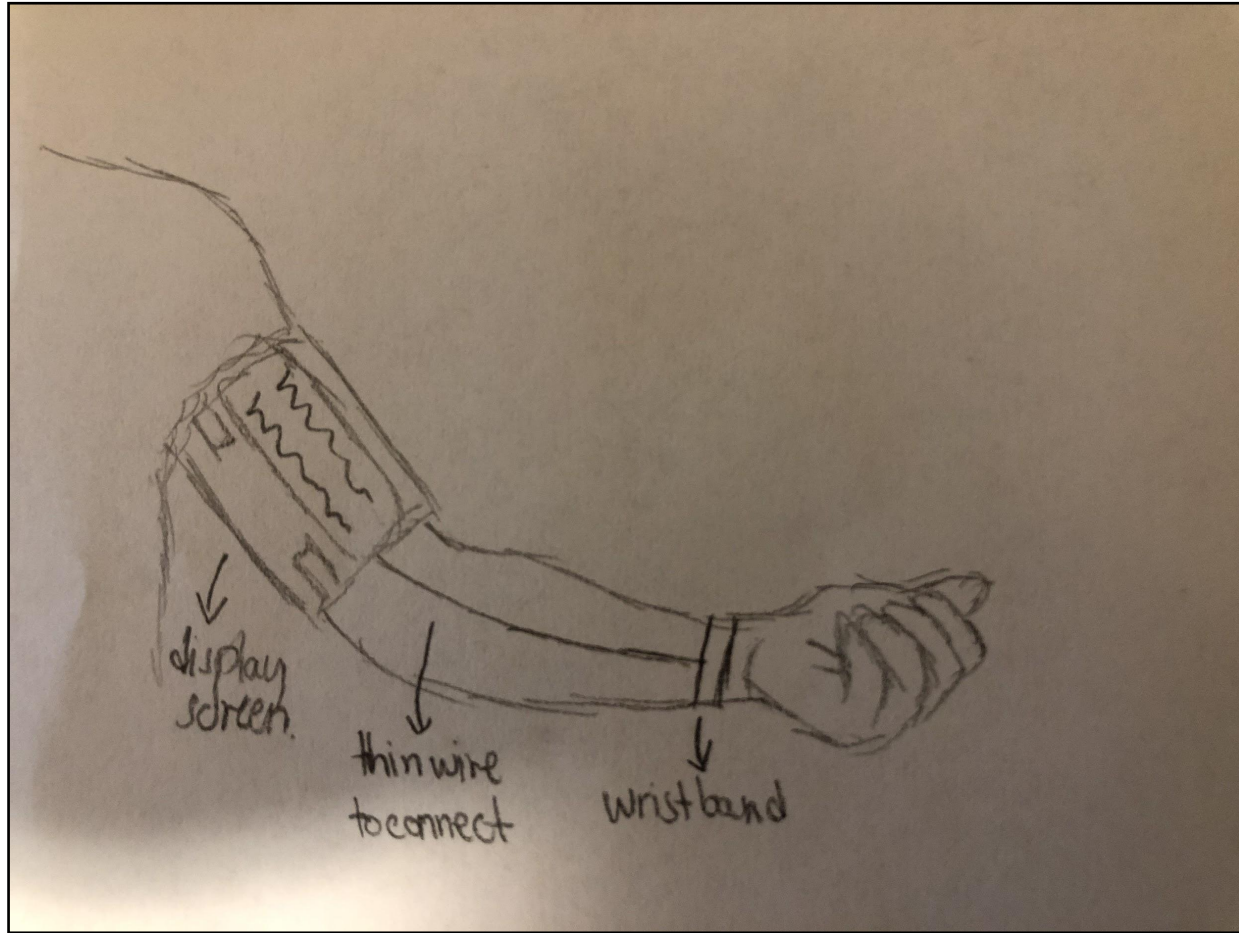


BRAINSTORMING

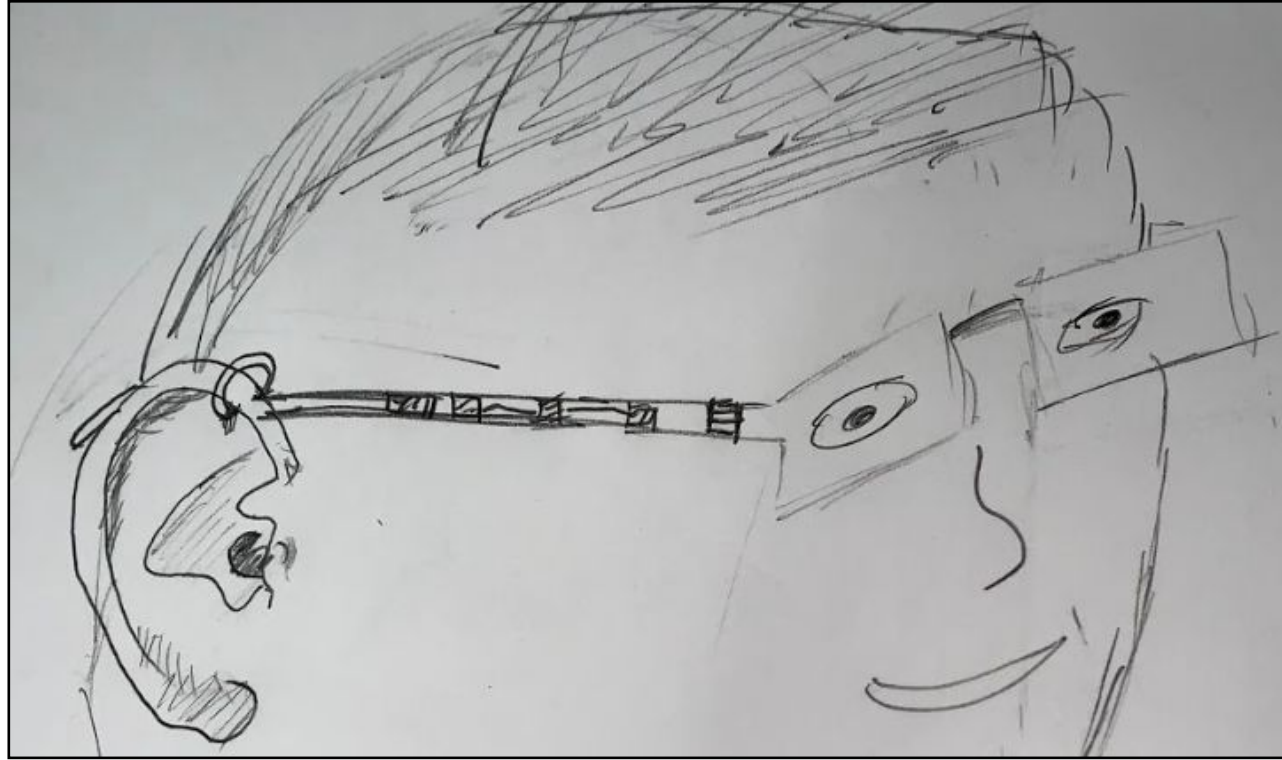
Ru's Concept



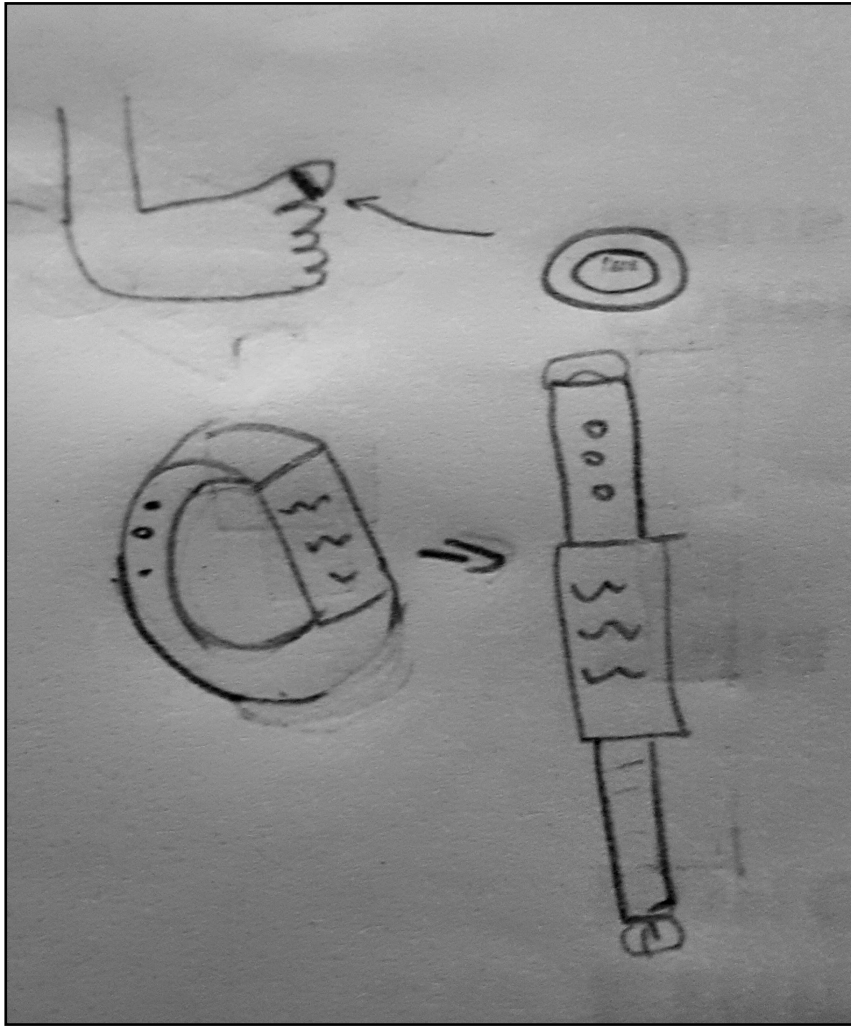
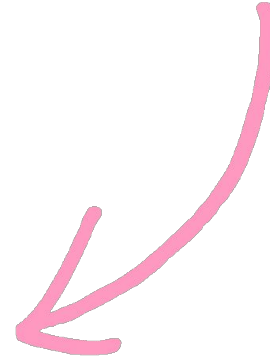
Dhvani's Concept



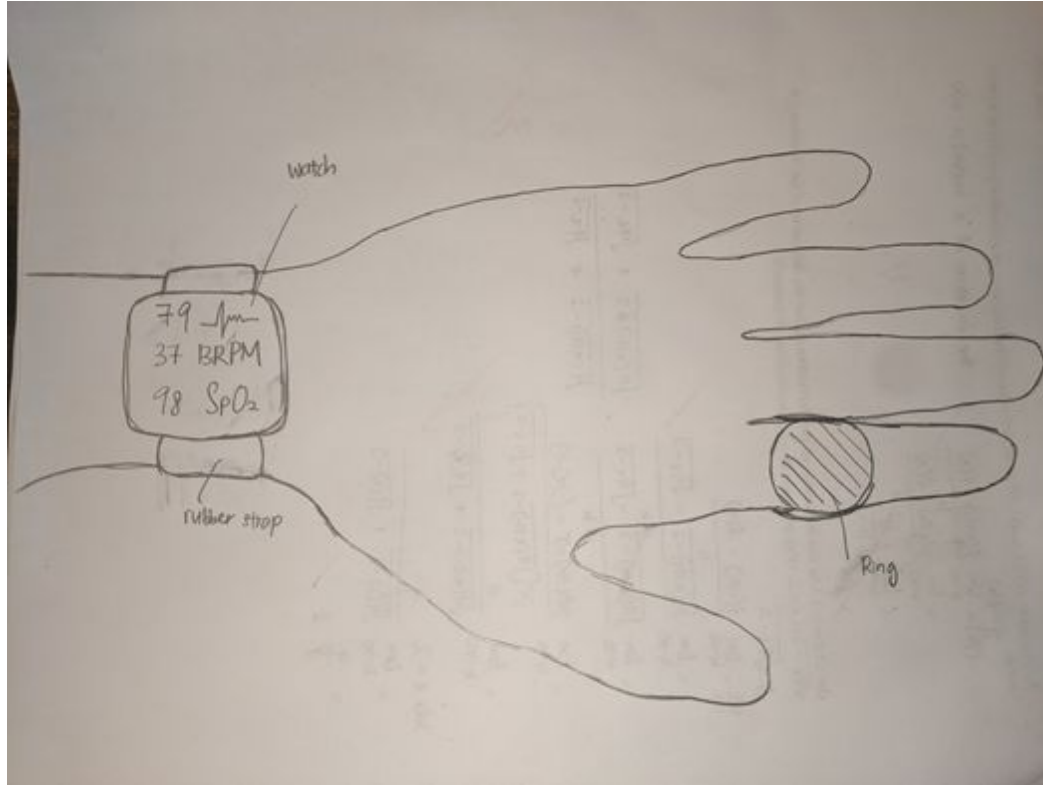
Mohamad's Concept



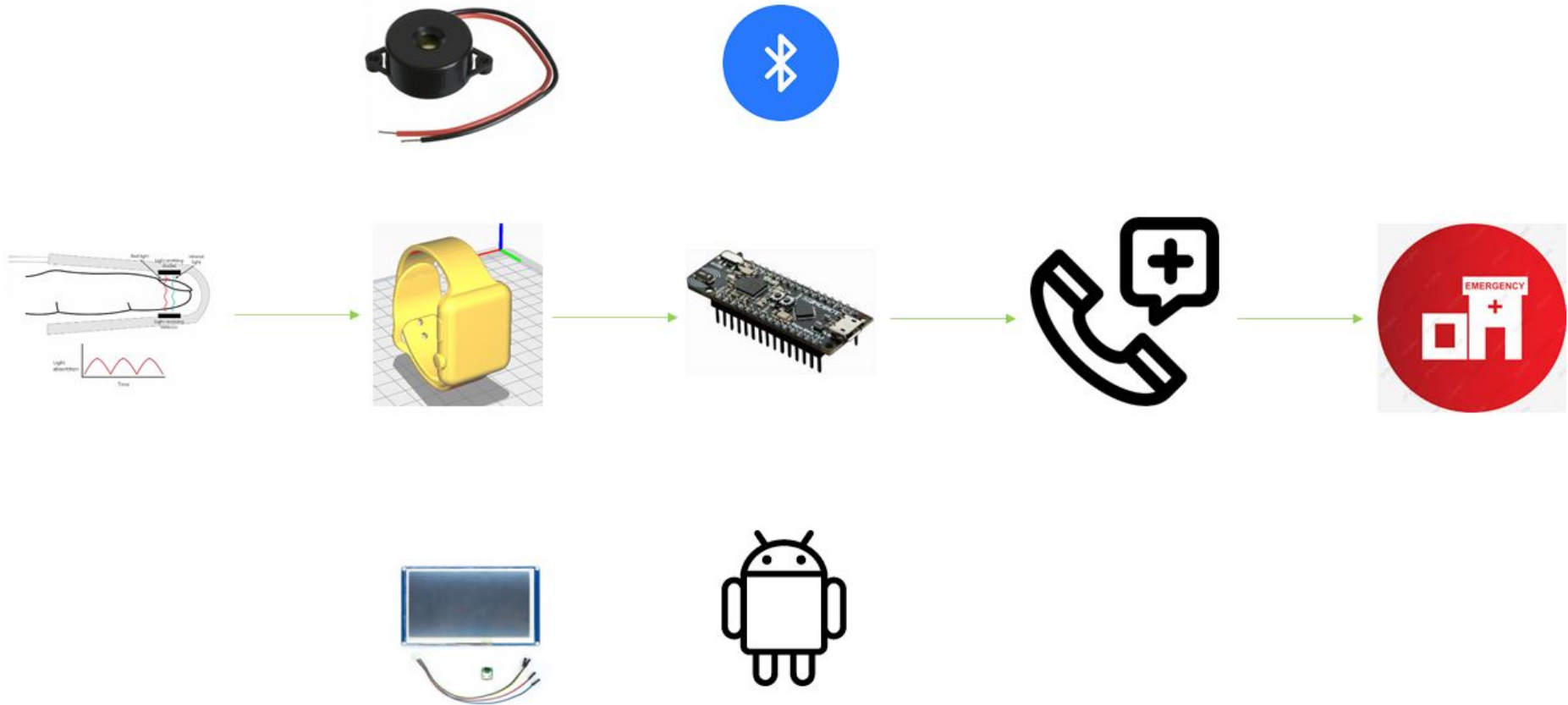
Sheetal's Concept



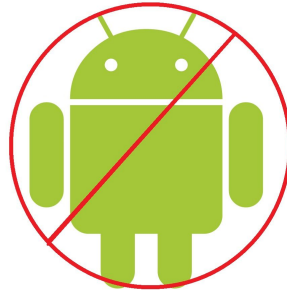
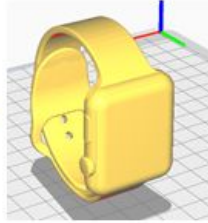
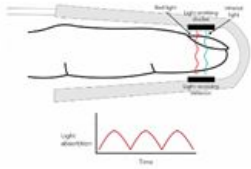
Ideal Design (Physical)



Ideal Design (Flow Chart)



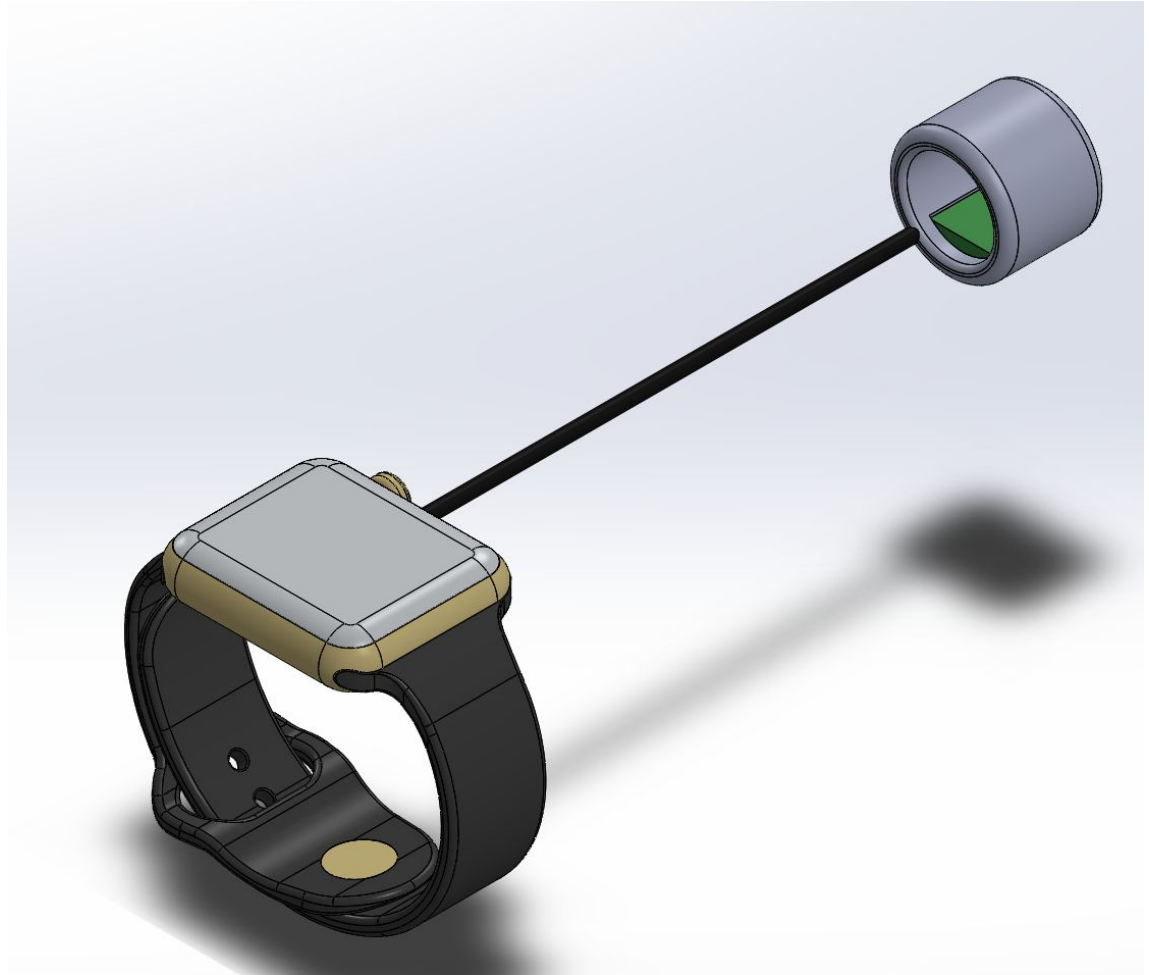
Actual Design (Flow Chart)



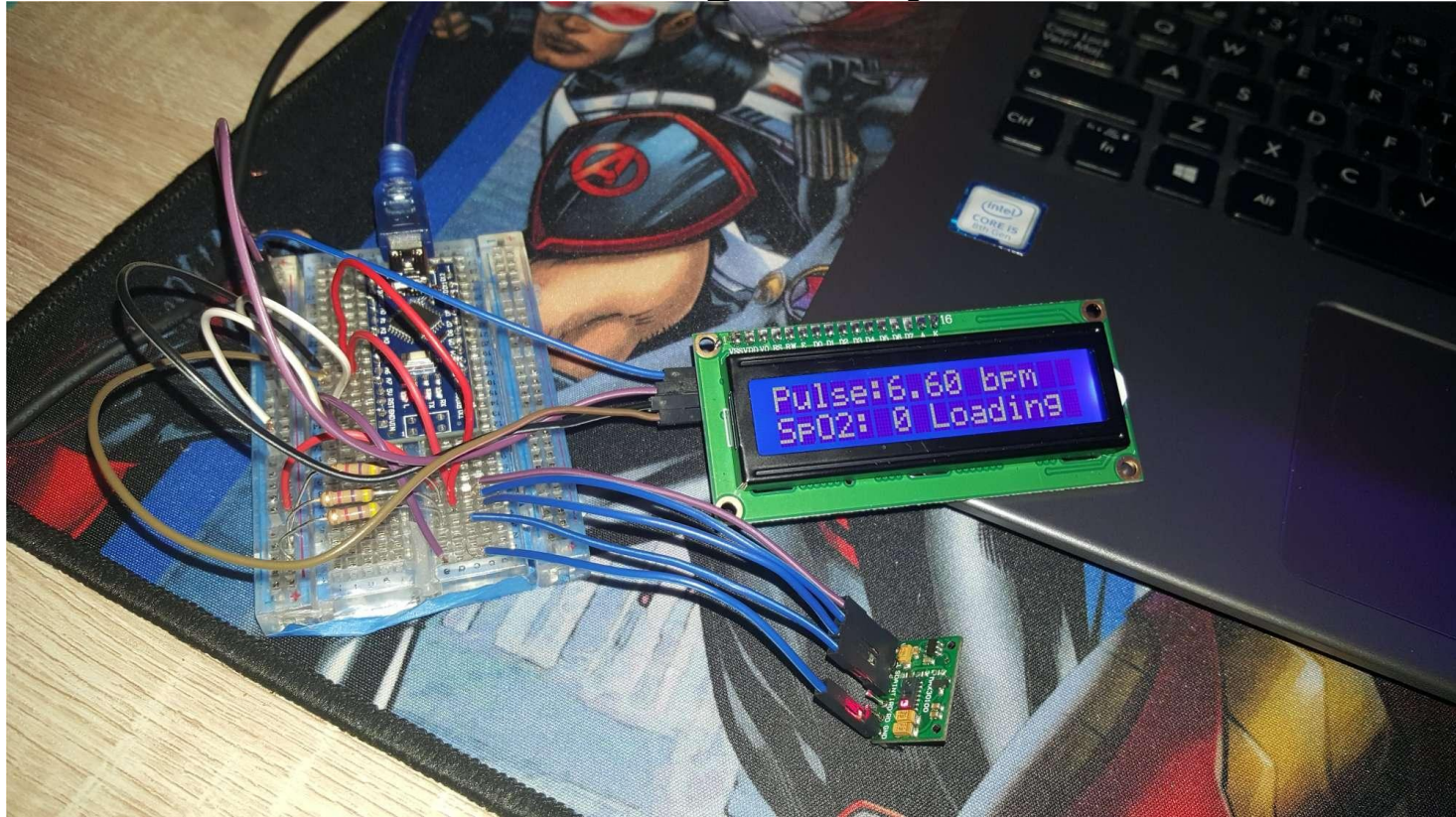
Received Feedback and Solutions

Presentation Attendee	Their Question/Feedback	Reflection
Tali Cahil	“How much do you think this will be? It seems like it will be expensive since you have 2 components.”	At the moment, our project is cost effective because there is still 40% of our budget left.
Dr. Knox - course instructor	“So what if you don’t have a smartphone?”	It may be a constraint but we believe that the majority of our users do own a smartphone due to their working requirement.
Classmate	“Have you tested the wires going from the ring to the watch itself and how mobile you can be with it on?”	In prototype II, we printed an improvised model for both the watch display and the ring that allows us to test out the functionality when a wire is connected between the ring and the watch display.

Improved Final Product



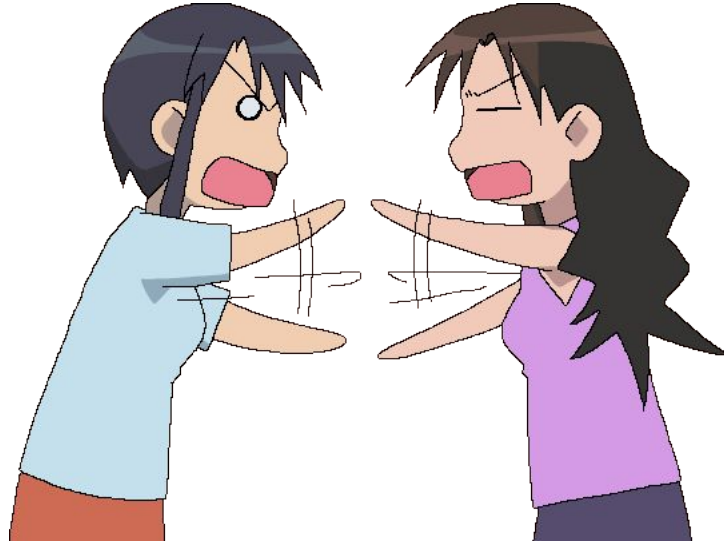
Actual Design(Physical)



Hardware Issues



Issues



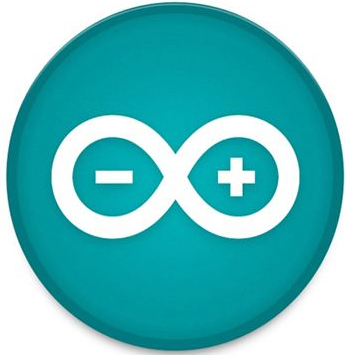
Prototyping Tools



DS **SOLIDWORKS**



Software



```
function d($arg) {  
    var_dump(debug_($arg));  
    trigger_error('Error: ' . $arg, E_USER_ERROR);  
    trigger_error('Error: ' . $arg, E_USER_ERROR);  
    trigger_error('Error: ' . $arg, E_USER_ERROR);  
}
```

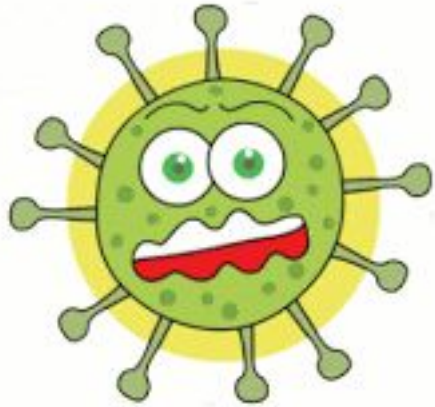
```
a('alpha');
```



Planning



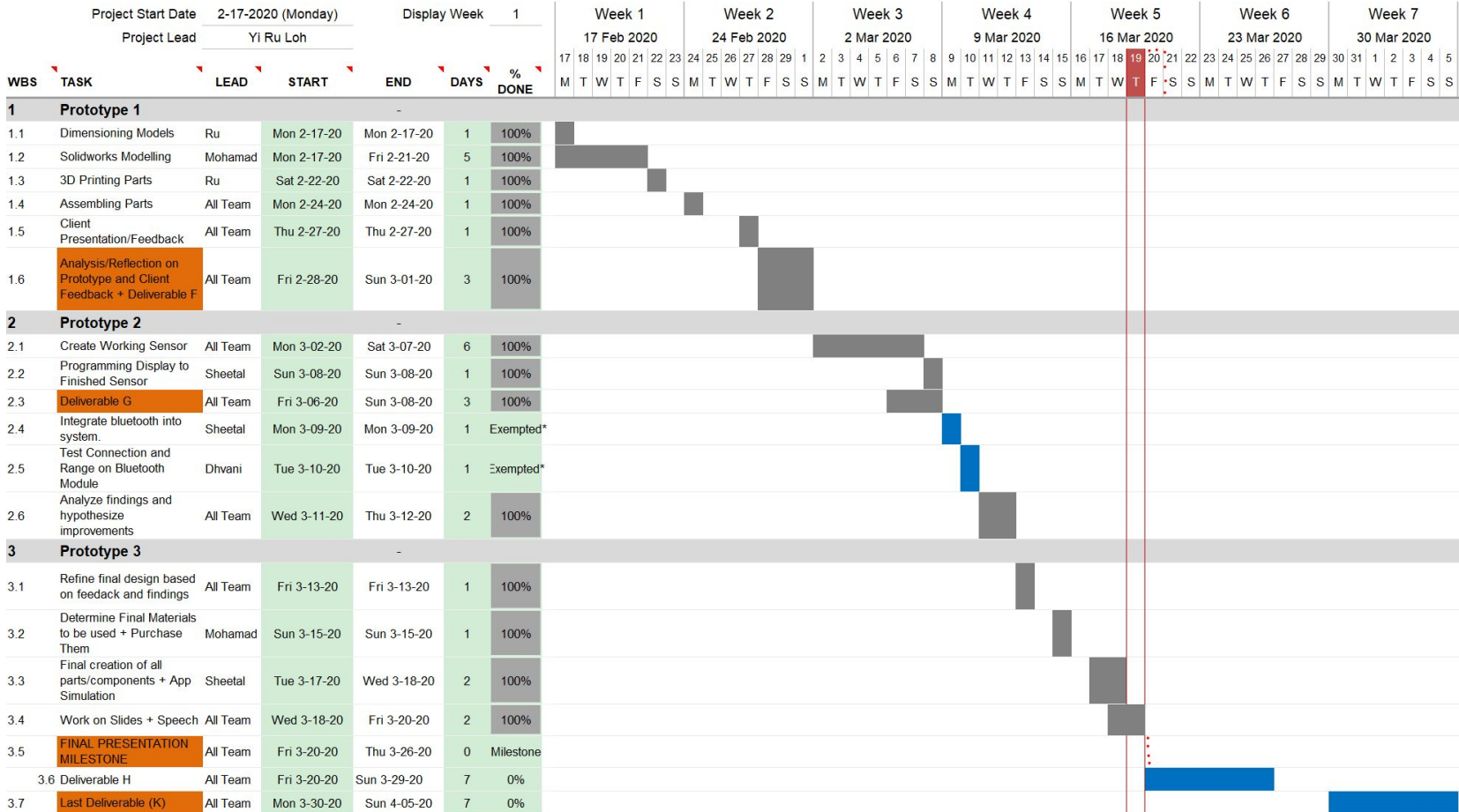
Limitations



Opiod Overdose module

Gantt Chart Template © 2006-2018 by Vertex42.com.

GNG 1103



Video Demonstration



Conclusion & Reflection

