

- Instructor: Feng Li
- Client: James Frenzel
- Team members (from left to right):
 - Xiao Liu
 - Jeremy Perhac
 - Yizhou Ye
 - Fanghao Han

OBJECTIVE

This project aims to develop a system to help people remotely monitor an elder family member that lives alone in a non-intrusive style.







DISCREET

Provide a more comfortable living condition in compared with traditional monitor method.

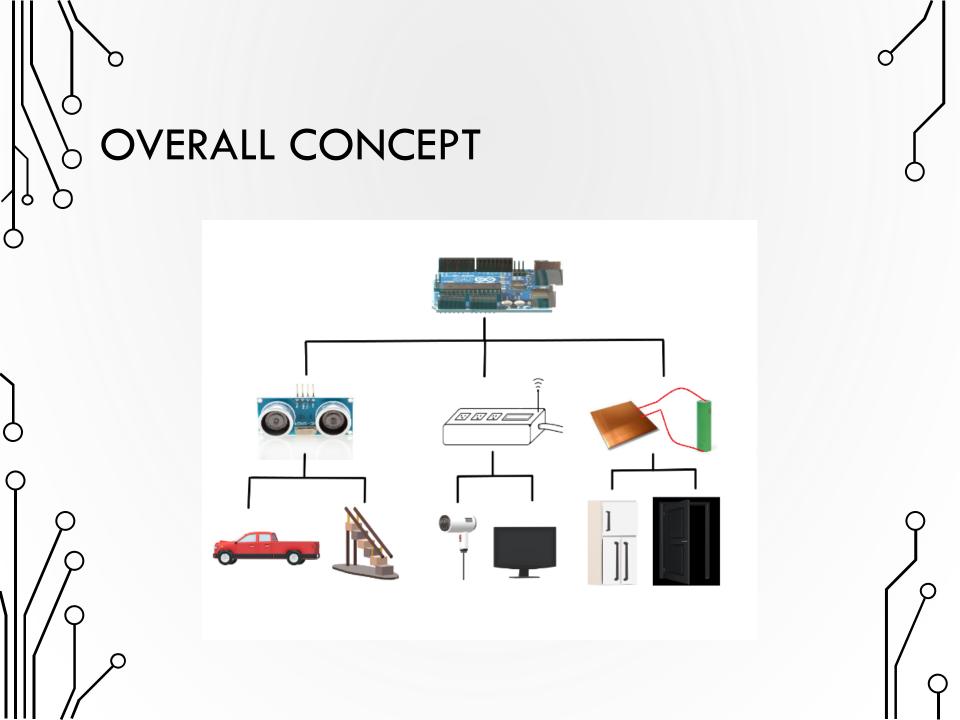
REMOTE

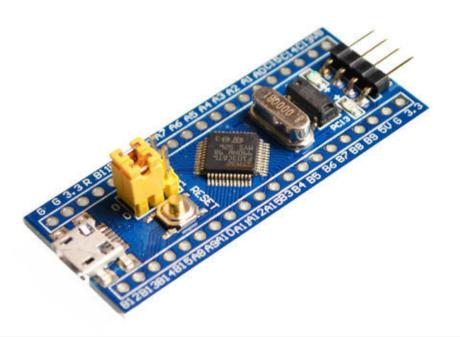
Help user get the information from webpage or other IM method.

Customer	Discreet
needs	Non-obtrusive
7	Low-cost (budget <= \$1000)
	Remote
Requirements	User should have an easy time getting to and reading data from the system.
	No video and audio monitor, or any other types of obtrusive monitoring ways.
	Devices should have sustained power supply.
	Device should be easy to set up.
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TEAM SCHEDULE

		Year	2018												
		Month	Sept			Oct					Nov				
Task Description	Duration	Start	9\3	9\10	9\17	9\24	10\1	10\8	10\15	10\22	10\29	11\5	11\12	11\19	11\26
Project Declartation	3 weeks	9\3													
Find sensors to fit declaration	2 weeks	9\17													
Order sensors and controllers to test	1 week	10\1													
	1 day	10\9													
Learn the controller	2-3 weeks	10\8													
Sensors Tests	6 weeks	10\8													
Ultrasonic (Jeremy & Carl)	3 weeks	10\8													
Current transformer (Han & Liu)	3-6 weeks	10\8													
Weight sensor (TBD)	3 weeks	10\29													
Motion sensor (TBD)	3 weeks	10\29													
Battery tests	6 weeks	10\8													
Design Validation Plan (DVP)	1 week	10\11													
Project Value Proposition	5 days	10\20													
Draft of Wiki page	1 week	10\22													
Report test findings	1 weeks	11\19													
	2 week	11\19													

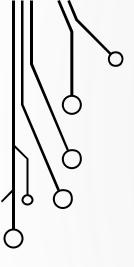






MICROCONTROLLER

A microcontroller can operate digital devices and interactive objects that can sense and control objects in the physical and digital world.



GARAGE & STAIRS MONITORING - ULTRASONIC SENSOR

