Class Journal

Lan Luo | WNW725 02 | Interactive Physical Systems | Fall 2019

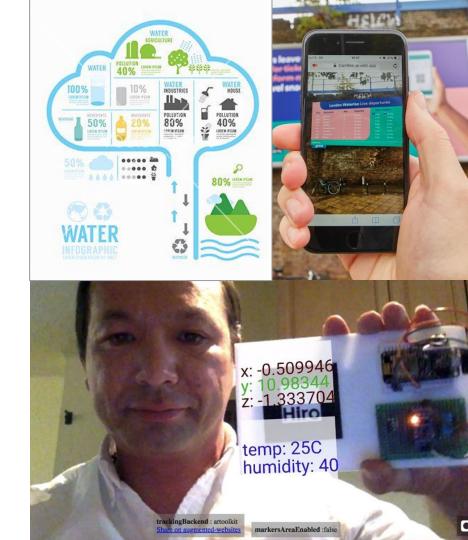
Academy of Art University, Web Design & New Media

Idea 1: Air Quality Monitor + AR Poster

It is a device that measures CO2 levels, temperatures, and humidity. Users can see the result with their phone using AR.

Inspirations:

https://www.hackster.io/antonramenskiy/air -surfer-a2d80f



Idea 1: Air Quality Monitor + AR Poster

Hardware Components:

Arduino Nano R3

DFRobot Gravity: Analog LPG Gas Sensor (MQ5) For Arduino

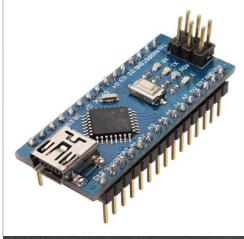
DFRobot Carbon Monoxide Sensor (MQ7)

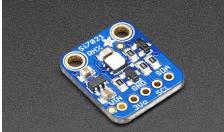
Temperature&humidity sensor Si7021 - 2\$(118Rub)

Software Apps:

Unity Arduino IDE







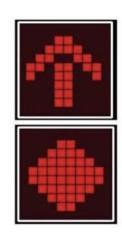
Idea 2: Bike Turning Signal Light

It is a signal light which can be controlled by hand gestures so bikers can be safe when biking at night.

Inspirations:

https://www.hackster.io/Mostafa_Abcreno/led-matrix-wave-moves-with-hand-183166







Idea 2: Bike Turning Signal Light

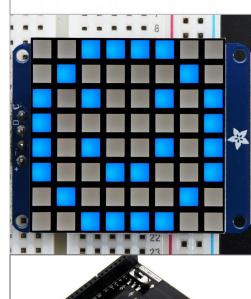
Hardware Components:

LED Matrix (15 *15)
Arduino Mega 2560 & Genuino Mega 2560
1Sheeld
iOS device

Software Apps:

Arduino IDE





Inspirations



A tribute to 5-bit Baudot code

Julian Hespenheide is an interaction designer based in Germany who submitted to Arduino blogpost a writing machine called émile.



Measure time like an egyptian with an Arduino hourglass

Todo is the italian design consultancy and creative agency taking care of Arduino and Genuino brand identity and interviewed in this previous blogpost.



Caravaggio, A Drawing Machine

Caravaggio is a drawing machine able to replicate a digital image using a pen and a continuous line.

