Traffic Light Redesign





The Problem

Color Blind have a hard time distinguishing red and yellow Especially bad at night



History

- Lester Wire designed the traffic light in 1912 At first there was no yellow light
 - Other than adding yellow the design has been untouched



Attempts of change

- Evgeny Arinin redesigned the light with different shapes
 - Self driving machines
 Taro Ochiai redesigned red
 light with cyan X inside



My idea

Add a sticker to change the shape of the light
 Cheap and easy
 Nothing has to be replaced



Things to consider

LED lights are being pushed > Last up to 11.5 years High temp vinyl can survive up to 225 degrees > Also waterproof





Traffic Light Sizes

	8in	12in
tall	30	42
wide	9.5	13.5
deep	6	8



Application Process

A sticker will be created for each light
attaches to pole arm
Polearm can extend to
apply
Light hood can be used to
guide pole



Comes on Sheet, allach to pole Sticker stateg. 40) Taped 01 more spir Part to press sticker on inthe -7 1/10. Loke Flexible Arm would OC have to Contract -> X -FL D-B-D 600 Approxomite size comparison



The Math

Sticker and pole arm part are either
8 or 12 in in diameter
Yellow light is 16ft above ground
Pole arm should extend up to 22.5ft
Person can stand 16ft from light and
apply at 45 degree angle









Work Cited

- <u>https://www.wired.com/2014/06/the-hidden-genius-and-influence-of-the-traffic-light/</u>
- <u>https://medium.com/conectric-networks/playing-</u> with-raspberry-pi-traffic-lights-89e0d1cb51fd
- <u>http://www.xodustech.com/projects/raspberry-pi-</u> <u>traffic-light</u>

