

UNDERSTANDING DOCUMENT

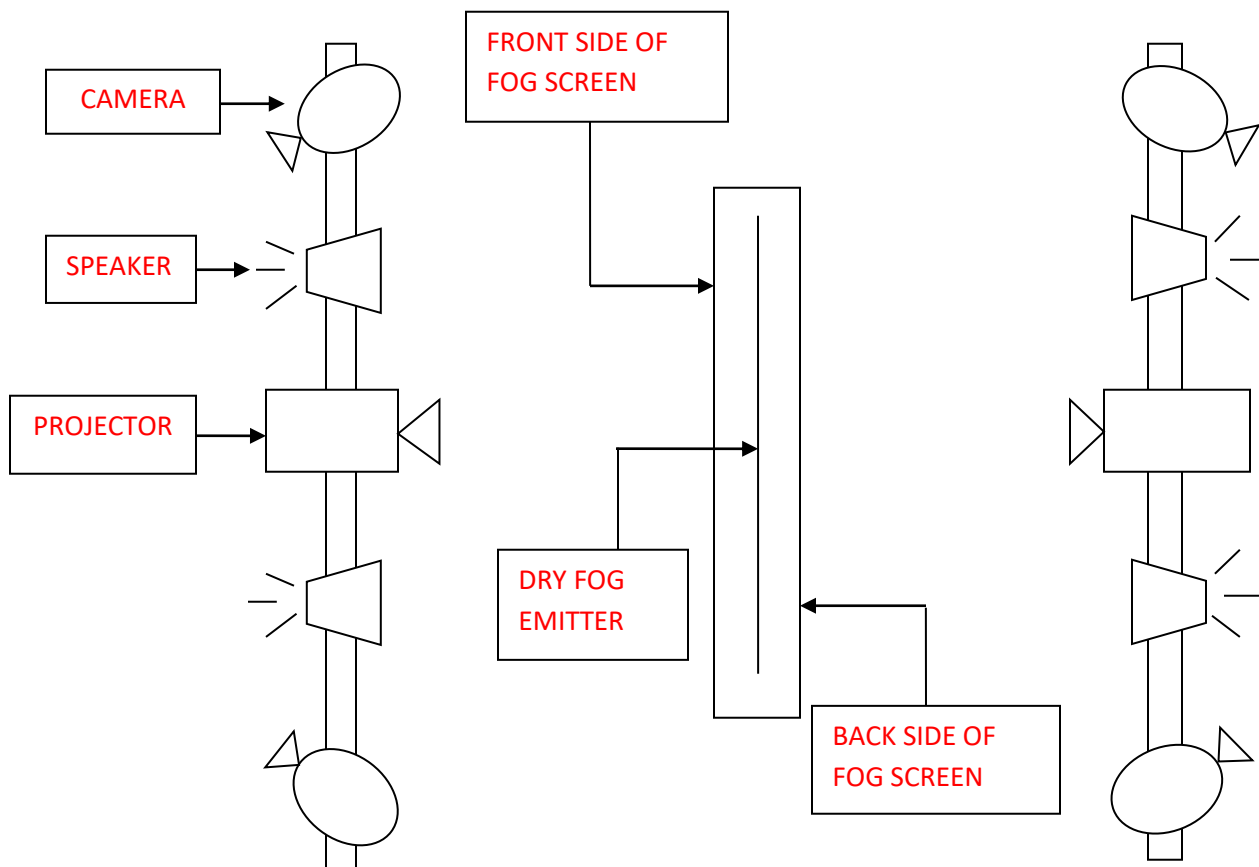
TECHNOLOGY

- To make a prototype as shown in the image I would use FOGSCREEN TECHNOLOGY .
- The FOGSCREEN can create fully opaque or very translucent high quality images in mid air. It can provide high visual detail.
- FOGSCREEN is a breakthrough technology that allows projection of high quality images in the air. It is currently the only walk through projection screen.
- We can literally use the air as user interface by touching only the air with bare hands.
- The fog we use is dry, so it doesn't make us wet even if we stay under the fog screen device for a long time.
- The fog is made of ordinary water with no chemical. Using two projectors we even can project different images on both sides of the screen.

LOGIC

- In this technology we make use of dry fog, which is emitted by a emitter placed at a certain height from the ground.
- This dry fog acts as a virtual screen on which we can project the traffic signs like stop, go etc by using a projector.
- Projector should be adjusted in front of the fog screen such that the projected light exactly falls on the screen.
- The projector installed in front of the fog screen should be connected to the traffic control room (TCR).

- Once the timers are set by the person in TCR, traffic signs are automatically projected on the fog screen.
- If we want a handy traffic control system we can install speakers, which are connected to the projector. The person in TCR can have full access on these speakers.
- A camera can also be installed so that it serves 2 purpose
 - I. When any vehicle crosses the screen without a green signal it captures the image of that particular vehicle. We even can scan the number plate of the vehicle by image processing technique. Fine for crossing the red signal will be automatically credited to that particular car owner's traffic account.
 - II. When an ambulance is struck in the traffic jam, then by image processing technique, the camera reads the ambulance and automatically turns the red signal into green signal. Thus, the camera even helps the ambulance to move on, this might even save a person's life!!



HARDWARE COMPONENTS

- ✓ Dry fog machine
- ✓ Dry fog emitter
- ✓ Projectors
- ✓ Cameras
- ✓ Transmitters and Receivers circuits
- ✓ Speakers
- ✓ MATLAB software(for image processing)